

FILE 'HOME' ENTERED AT 11:15:22 ON 18 JUL 2007

=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:15:40 ON 18 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 JUL 2007 HIGHEST RN 942577-08-4
DICTIONARY FILE UPDATES: 17 JUL 2007 HIGHEST RN 942577-08-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> .
Uploading C:\Program Files\Stnexp\Queries\10566101a.str



```

chain nodes :
10 11 12 14 15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
3-10 7-14 10-11 11-12 11-15 11-16 14-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
3-10 5-7 7-8 7-14 10-11 11-12 11-15 11-16 14-17
exact bonds :
6-9 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

```

G1:Cy,N

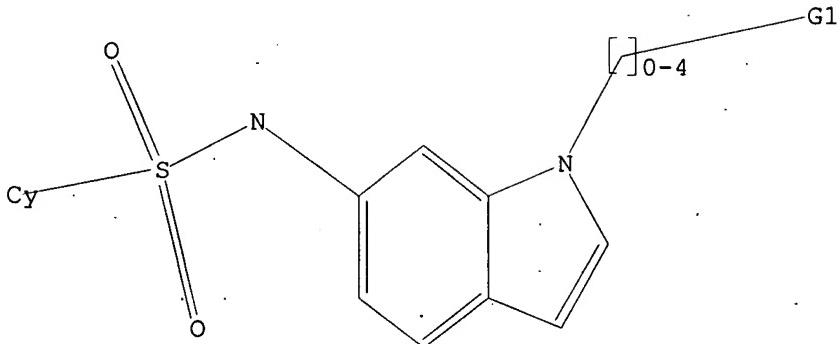
```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 14:CLASS 15:Atom 16:CLASS 17:CLASS

```

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 Cy,N

Structure attributes must be viewed using STN Express query preparation.

=> s 11
SAMPLE SEARCH INITIATED 11:15:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 229 TO ITERATE

100.0% PROCESSED 229 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3673 TO 5487
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s 11 full
FULL SEARCH INITIATED 11:16:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4067 TO ITERATE

100.0% PROCESSED 4067 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

L3 20 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
172.10 172.31

FILE 'CAPLUS' ENTERED AT 11:16:07 ON 18 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 18 Jul 2007 VOL 147 ISS 4
FILE LAST UPDATED: 17 Jul 2007 (20070717/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

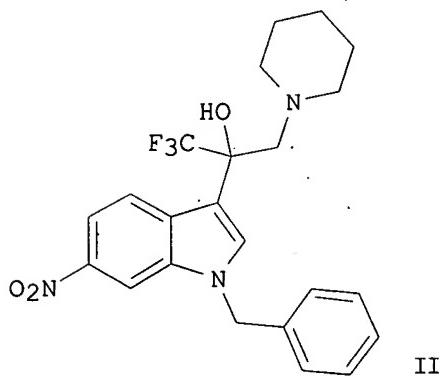
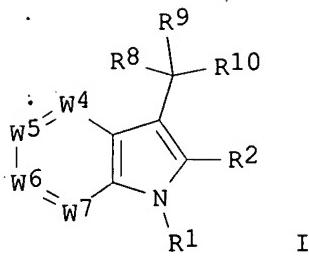
<http://www.cas.org/infopolicy.html>

=> s 13 full
L4 8 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:410811 CAPLUS
DOCUMENT NUMBER: 146:421837
TITLE: Preparation of fused pyrrole derivatives as GR modulators
INVENTOR(S): Sone, Toshihiko; Sawaki, Rieko; Nakajima, Tomoko
PATENT ASSIGNEE(S): Dainippon Sumitomo Pharma Co., Ltd., Japan
SOURCE: PCT Int. Appl., 403pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007040166	A1	20070412	WO 2006-JP319426	20060929
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			JP 2005-286576	A 20050930
OTHER SOURCE(S):		MARPAT 146:421837		
GI				



AB Title compds. I [R1 = H, (un)substituted alkyl, (un)substituted alkenyl, etc.; R2 = H, halo, carboxyl, etc.; -W4:W5:W6:W7- = -CR4:CR5:CR6:CR7-, -N:CR5:CR6:CR7-, -CR4:N:CR6:CR7-, etc.; R4-R7 = -E-A; E = single bond, -O-, -CO-, etc.; when E is a single bond, A is H, halo, cyano, etc.; when E is -O-, -CO-, etc., A is H, (un)substituted alkyl, (un)substituted cycloalkyl, etc.; R8 = -OR11, -SR11, -N(R11)R12; R11, R12 = H, (un)substituted alkyl; R9 = alkyl substituted with halo, cycloalkyl substituted with halo; R10 = -[C(R13)R14]n-R15; R13, R14 = H, alkyl, halo; R13 and R14 may combine to form a oxo group; or R13 and R14, together with the carbon atom to which they are attached, form a cycloalkane (one or two -CH2- in cycloalkane may be replaced with -NH-, -S-, -S(:O)-, etc.); n = 0-10; R15 = hydroxy, (un)substituted alkyl, (un)substituted alkenyl, etc.], prodrugs or pharmaceutically acceptable salts were prepared. For example, reaction of 1-(1-benzyl-6-nitro-1H-indol-3-yl)-2,2,2-trifluoroethanone, e.g., prepared from 6-nitroindole in 2 steps, with trimethylphosphonium iodide followed by treatment with piperidine afforded compound II. In glucocorticoid receptor (GR) binding assays, compound II exhibited the inhibitory activity of 92% at 100 nM. Compds. I are claimed useful for the treatment of inflammation and diabetes.

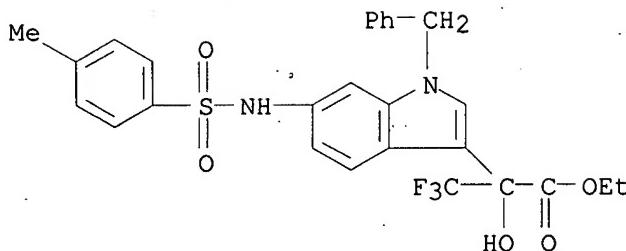
IT 934224-55-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fused pyrrole derivs. as GR modulators for treatment of inflammation and diabetes)

RN 934224-55-2 CAPLUS

CN 1H-Indole-3-acetic acid, α -hydroxy-6-[[[(4-methylphenyl)sulfonyl]amino]-1-(phenylmethyl)- α -(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:470334 CAPLUS

DOCUMENT NUMBER: 143:125834

TITLE: A Three-Dimensional Pharmacophore Model for 5-Hydroxytryptamine₆ (5-HT₆) Receptor Antagonists

AUTHOR(S): Lopez-Rodriguez, Maria L.; Benhamu, Bellinda; de la Fuente, Tania; Sanz, Arantxa; Pardo, Leonardo; Campillo, Mercedes

CORPORATE SOURCE: Departamento de Quimica Organica I, Facultad de Ciencias Quimicas, Universidad Complutense, Madrid, E-28040, Spain

SOURCE: Journal of Medicinal Chemistry (2005), 48(13), 4216-4219

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

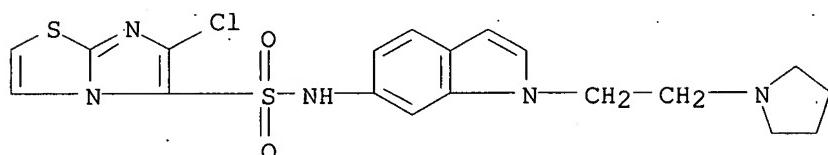
AB Forty-five structurally diverse 5-hydroxytryptamine₆ receptor (5-HT_{6R}) antagonists were selected to develop a 3D pharmacophore model with the Catalyst software. The structural features for antagonism at this receptor are a pos. ionizable atom interacting with Asp3.32, a hydrogen bond acceptor group interacting with Ser5.43 and Asn6.55, a hydrophobic site interacting with residues in a hydrophobic pocket between transmembranes 3, 4, and 5, and an aromatic-ring hydrophobic site interacting with Phe6.52.

IT 753020-94-9

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(three-dimensional pharmacophore model for 5-HT₆ receptor antagonists)

RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136598 CAPLUS

DOCUMENT NUMBER: 142:240323

TITLE: Active substance combination comprising a compound with NPY receptor affinity and a compound with 5-HT₆

INVENTOR(S): receptor affinity
 Torrens Jover, Antoni; Mas Prio, Josep; Dordal Zueras,
 Alberto; Codony Soler, Xavier; Merce Vidal, Ramon;
 Aurelio Castrillo Perez, Jose; Frigola Constansa,
 Jordi; Buschmann, Helmut-Heinrich
 PATENT ASSIGNEE(S): Laboratorios del Esteve S. A., Spain
 SOURCE: PCT Int. Appl., 427 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005014045	A1	20050217	WO 2004-EP8514	20040729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
ES 2228268	A1	20050401	ES 2003-1815	20030730
ES 2228268	B1	20060701		
AU 2004262488	A1	20050217	AU 2004-262488	20040729
CA 2534099	A1	20050217	CA 2004-2534099	20040729
EP 1660131	A1	20060531	EP 2004-741321	20040729
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 2007009597	A1	20070111	US 2006-566402	20060705
PRIORITY APPLN. INFO.:			ES 2003-1815	A 20030730
			WO 2004-EP8514	W 20040729

OTHER SOURCE(S): CASREACT 142:240323; MARPAT 142:240323
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to an active substance combination comprising at least one compound I [R1-R4 = H, halo, alkyl, etc.; R5 = H, alkyl, (un)saturated cycloalkyl; R6-R9 = H, alkyl, (un)saturated cycloalkyl, etc.]; A = CHR18, CHR18CH2; B = alkyl, (un)saturated cycloalkyl, etc.; R10 = H, alkyl, (un)saturated cycloalkyl, etc.; R11 = alkyl, (un)saturated cycloalkyl, etc.; NR10R11 = (un)saturated heterocyclyl; R18 = H, alkyl, (un)saturated cycloalkyl, etc.] with neuropeptide Y-receptor affinity, preferably neuropeptide Y5-receptor affinity, and at least one compound with 5-HT6 receptor affinity (such as II [R1 = H, alkyl, Ph, CH2PH; R2 = NR4R5, (un)saturated (hetero)cycloalkyl, etc.; R3 = H, alkyl; R4, R5 = H, alkyl; or NR4R5 = (un)saturated heterocyclyl; A = (un)substituted (hetero)aryl; n = 0-4]), a medicament comprising said active substance combination, and the use of said active substance combination for the manufacture of a medicament. Synthesis of amides I and sulfonamides such as II is described in examples. E.g., a multi-step synthesis of III.HCl, starting from 1-(tert-butoxycarbonyl)-4-piperidinone and Me anthranilate, was given. The amides I and sulfonamides such as II were tested against neuropeptide Y5 and 5-HT6 binding (data given for representative compds.).
 IT 753020-88-1P 753020-90-5P 753020-91-6P

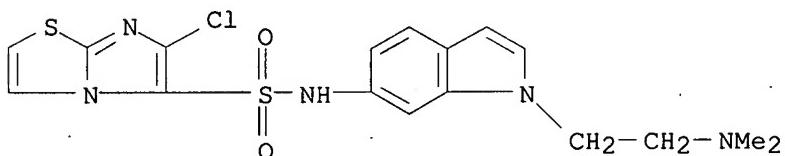
753020-94-9P 753020-96-1P 753020-97-2P
844477-59-4P 844477-64-1P 844477-68-5P
844477-70-9P 844477-72-1P 844477-79-8P
844477-84-5P 844477-87-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amides and sulfonamides as components of active combination with NPY receptor affinity and 5-HT₆ receptor affinity)

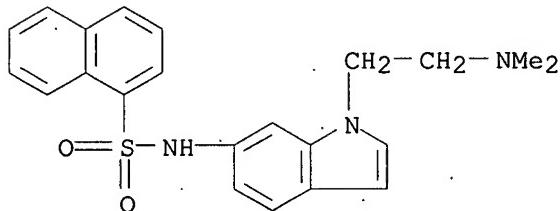
RN 753020-88-1 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



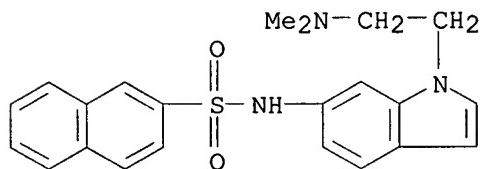
RN 753020-90-5 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



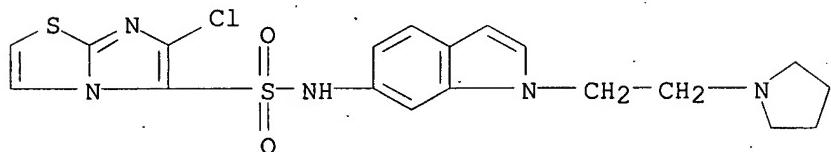
RN 753020-91-6 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 753020-94-9 CAPLUS

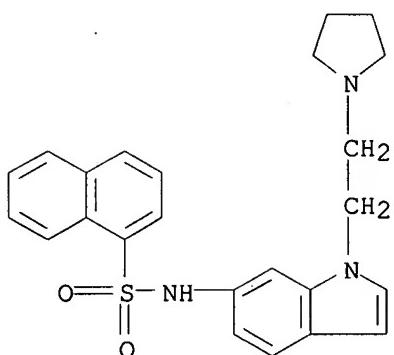
CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



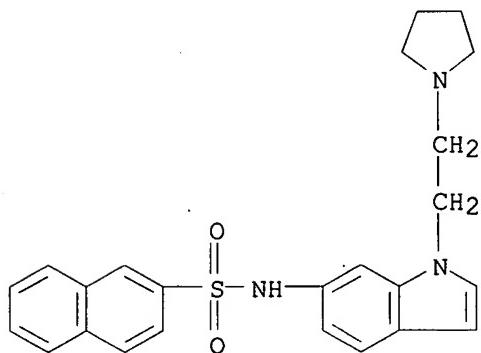
RN 753020-96-1 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-

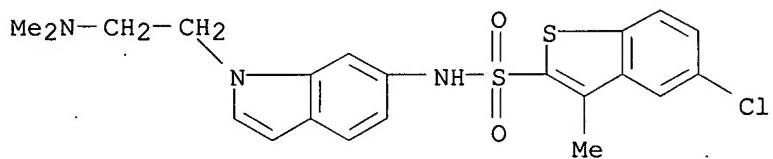
(9CI) (CA INDEX NAME)



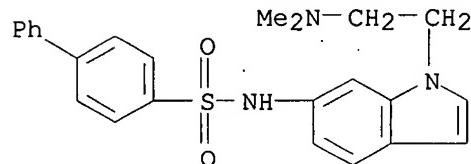
RN 753020-97-2 CAPLUS
CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



RN 844477-59-4 CAPLUS
CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)

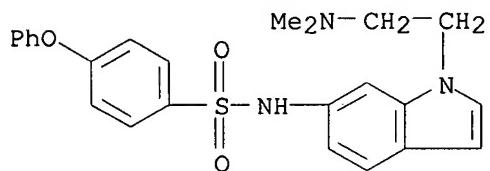


RN 844477-64-1 CAPLUS
CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



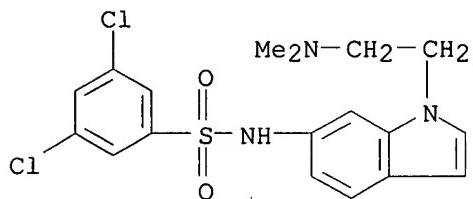
RN 844477-68-5 CAPLUS

CN Benzenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-4-phenoxy-
(9CI) (CA INDEX NAME)



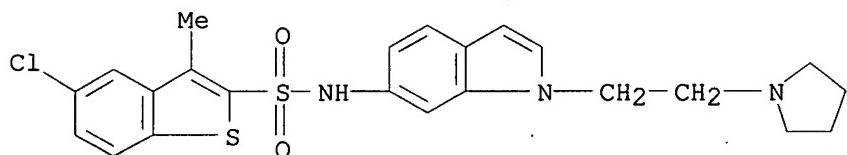
RN 844477-70-9 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



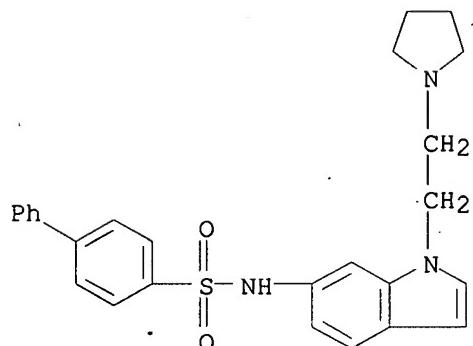
RN 844477-72-1 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



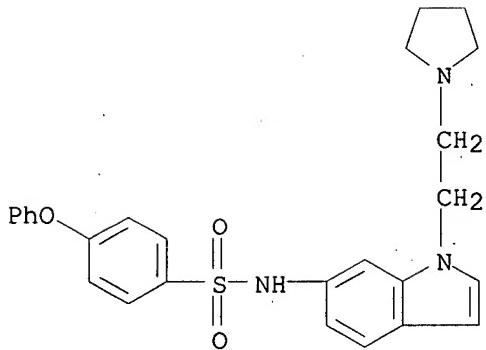
RN 844477-79-8 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



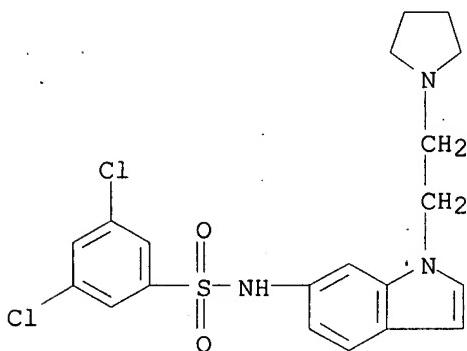
RN 844477-84-5 CAPLUS

CN Benzenesulfonamide, 4-phenoxy-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-87-8 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136568 CAPLUS

DOCUMENT NUMBER: 142:240322

TITLE: Active substance combination comprising a compound with NPY receptor affinity and a compound with 5-HT6 receptor affinity

INVENTOR(S): Torrens Jover, Antoni; Mas Prio, Josep; Dordal Zueras, Alberto; Codony Soler, Xavier; Merce Vidal, Ramon; Aurelio Castrillo Perez, Jose; Frigola Constansa, Jordi; Buschmann, Helmut-Heinrich

PATENT ASSIGNEE(S): Laboratorios del Esteve S. A., Spain

SOURCE: PCT Int. Appl., 451 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

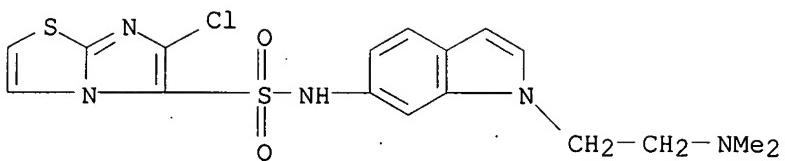
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005014000	A1	20050217	WO 2004-EP8515	20040729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				

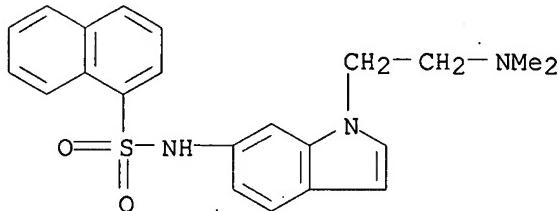
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 ES 2228267 A1 20050401 ES 2003-1814 20030730
 ES 2228267 B1 20060701
 AU 2004262489 A1 20050217 AU 2004-262489 20040729
 CA 2534100 A1 20050217 CA 2004-2534100 20040729
 EP 1648468 A1 20060426 EP 2004-763612 20040729
 R: AT, BE, CH, DE, DK; ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 US 2007059364 A1 20070315 US 2006-566100 20061026
 PRIORITY APPLN. INFO.: ES 2003-1814 A 20030730
 WO 2004-EP8515 W 20040729
 OTHER SOURCE(S): MARPAT 142:240322
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

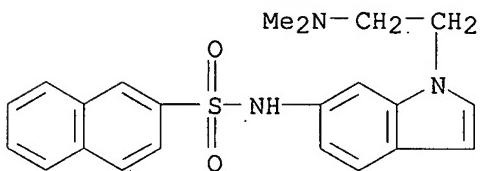
AB The present invention relates to an active substance combination comprising at least one compound I [R1-R4 = H, halo, alkyl, etc.; R5 = H, alkyl, (un)saturated (hetero)cycloalkyl; R6-R9 = H, alkyl, (un)saturated (hetero)cycloalkyl, etc.; A = CHR18, CHR18CH2; R10 = H, alkyl, (un)saturated cycloalkyl, etc.; R11 = alkyl, (un)saturated cycloalkyl, etc.; NR10R11 = (un)saturated heterocyclyl; R18 = H, alkyl, (un)saturated cycloalkyl, etc.] with neuropeptide Y-receptor affinity, preferably neuropeptide Y5-receptor affinity, and at least one compound with 5-HT6 receptor affinity (such as II [R1 = H, alkyl, Ph, CH2PH; R2 = NR4R5, (un)saturated (hetero)cycloalkyl, etc.; R3 = H, alkyl; R4, R5 = H, alkyl; or NR4R5 = (un)saturated heterocyclyl; A = (un)substituted (hetero)aryl; n = 0-4]), a medicament comprising said active substance combination, and the use of said active substance combination for the manufacture of a medicament. Synthesis of amides I and sulfonamides such as II is described in examples. Thus, reacting 6-chloro-1-(4-piperidinyl)-1,4-dihydro-2H-3,1-benzoxazinone hydrochloride with 2-(2-chloroacetamide)-2',5-dichlorobenzophenone in the presence of K2CO3 in DMF followed by treating of the free base with HCl/EtOH afforded 61% III.HCl. The amides I and sulfonamides such as II were tested against neuropeptide Y5 and 5-HT6 binding (data given for representative compds.).
 IT 753020-88-1P 753020-90-5P 753020-91-6P
 753020-94-9P 753020-96-1P 753020-97-2P
 844477-59-4P 844477-64-1P 844477-68-5P
 844477-70-9P 844477-72-1P 844477-79-8P
 844477-84-5P 844477-87-8P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of amides and sulfonamides as components of active combination with NPY receptor affinity and 5-HT6 receptor affinity)
 RN 753020-88-1 CAPLUS
 CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



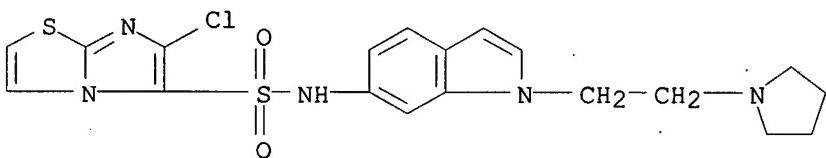
RN 753020-90-5 CAPLUS
 CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



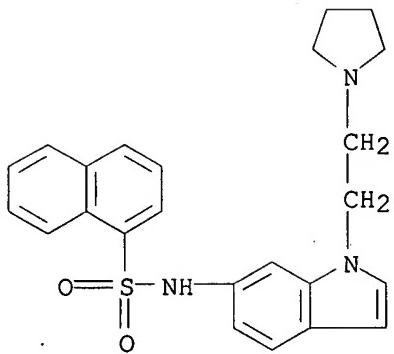
RN 753020-91-6 CAPLUS
 CN 2-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 753020-94-9 CAPLUS
 CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)

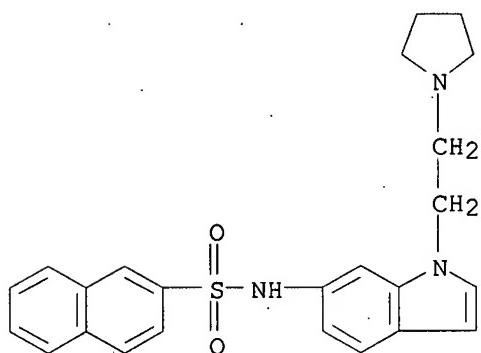


RN 753020-96-1 CAPLUS
 CN 1-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



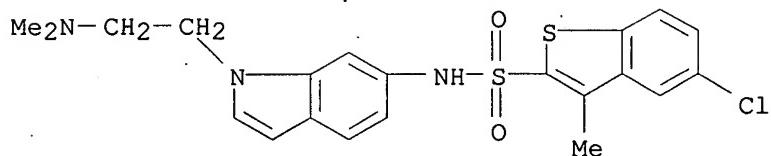
RN 753020-97-2 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



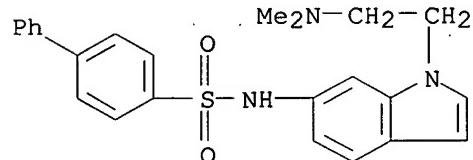
RN 844477-59-4 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



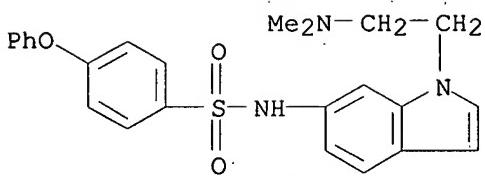
RN 844477-64-1 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)

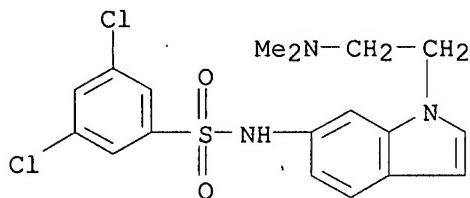


RN 844477-68-5 CAPLUS

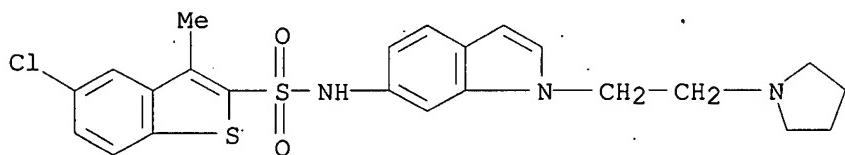
CN Benzenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-4-phenoxy- (9CI) (CA INDEX NAME)



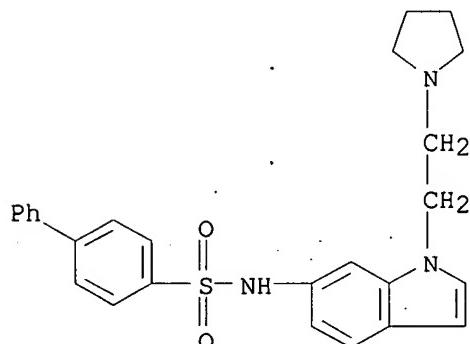
RN 844477-70-9 CAPLUS
 CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



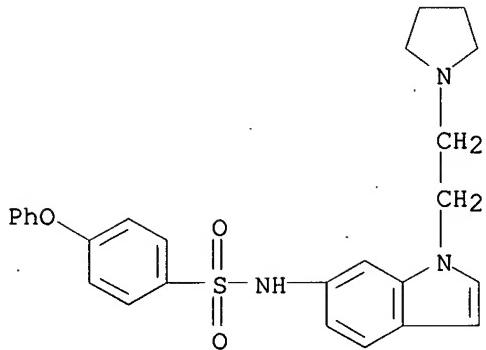
RN 844477-72-1 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



RN 844477-79-8 CAPLUS
 CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)

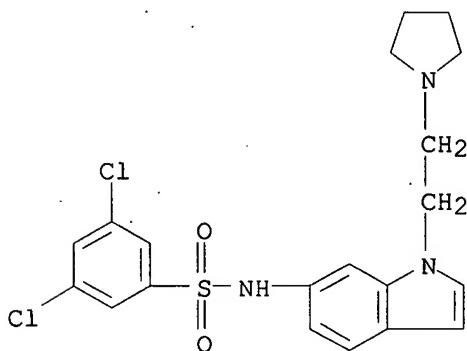


RN 844477-84-5 CAPLUS
 CN Benzenesulfonamide, 4-phenoxy-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



RN 844477-87-8 CAPLUS

CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136548 CAPLUS

DOCUMENT NUMBER: 142:240309

TITLE: Preparation of indol-6-ylsulfonamide derivatives and their use as 5-HT6 modulators

INVENTOR(S): Merce Vidal, Ramon; Codony Soler, Xavier; Dordal Zueras, Alberto

PATENT ASSIGNEE(S): Laboratorios del Esteve S. A., Spain

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

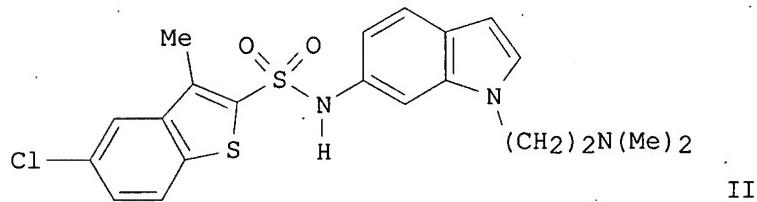
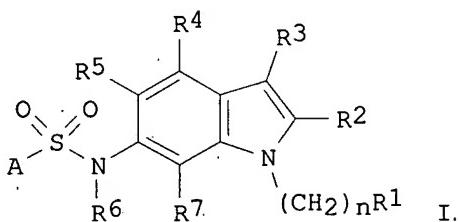
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005013976	A1	20050217	WO 2004-EP8510	20040729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 ES 2222832 A1 20050201 ES 2003-1810 20030730
 ES 2222832 B1 20060216
 AU 2004262484 A1 20050217 AU 2004-262484 20040729
 CA 2533970 A1 20050217 CA 2004-2533970 20040729
 EP 1660077 A1 20060531 EP 2004-741319 20040729
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 CN 1832738 A 20060913 CN 2004-80022271 20040729
 BR 2004013112 A 20061003 BR 2004-13112 20040729
 JP 2007500164 T 20070111 JP 2006-521528 20040729
 NO 2006000682 A 20060210 NO 2006-682 20060210
 US 2007043041 A1 20070222 US 2006-566101 20060810
 PRIORITY APPLN. INFO.: ES 2003-1810 A 20030730
 WO 2004-EP8510 W 20040729

OTHER SOURCE(S): CASREACT 142:240309; MARPAT 142:240309
 GI



AB Title compds. I [R1 = NR8R9 radical or a (un)saturated, optionally at least monosubstituted cycloaliph. radical which may contain at least one heteroatom; R2-5,7 independently = H, halo, NO₂, alkoxy, etc.; R6 = H or (un)saturated aliphatic radical optionally at least monosubstituted; R8 and R9 = H or (un)saturated aliphatic radical optionally at least monosubstituted with provisions, or R8 and R9 together with the N atom form a (un)saturated heterocyclic ring optionally at least monosubstituted; A = mono or polycyclic aromatic ring system which may be bonded via (un)substituted alkylene, alkenylene or alkynylene group; n = 0-4], and their pharmaceutically acceptable salts, are prepared and disclosed as useful for medicaments in human and/or veterinary therapeutics for diseases/disorders related to 5-HT₆ receptor. Thus, e.g., II was prepared by the reaction of 5-chloro-3-methylbenzo[b]thiophene-2-sulfonyl chloride with 6-amino-1-(2-dimethylaminoethyl)-1H-indole. Selected compds. of the invention were evaluated for binding with 5-HT₆ receptor; % inhibition values reported to range from 86.9-98.6 at 10-6M concns.

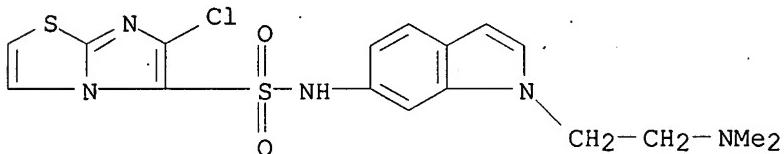
IT 753020-88-1P 753020-90-5P 753020-91-6P
 753020-94-9P 753020-96-1P 753020-97-2P
 844477-59-4P 844477-64-1P 844477-68-5P
 844477-70-9P 844477-72-1P 844477-79-8P
 844477-84-5P 844477-87-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of indol-6-ylsulfonamide derivs. as 5-HT₆ receptor modulators)

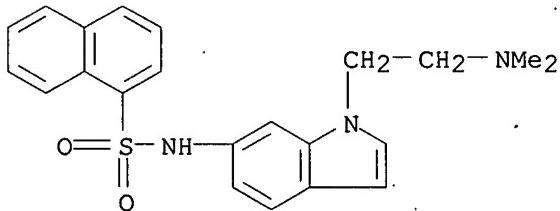
RN 753020-88-1 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



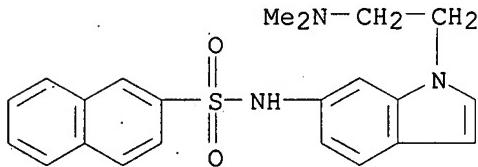
RN 753020-90-5 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



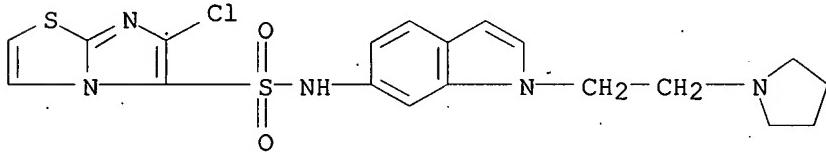
RN 753020-91-6 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



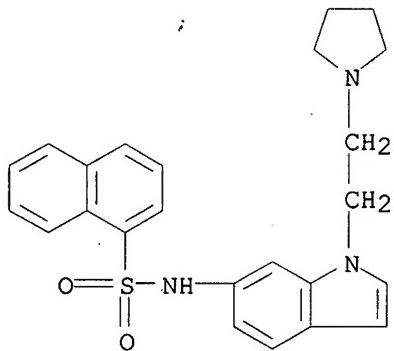
RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



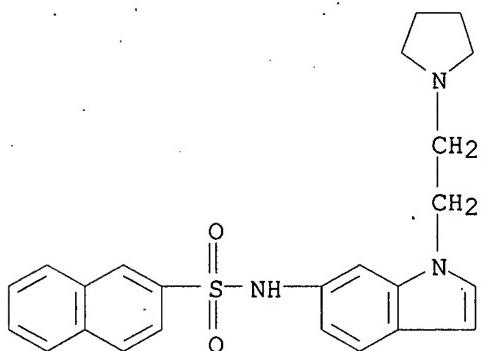
RN 753020-96-1 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



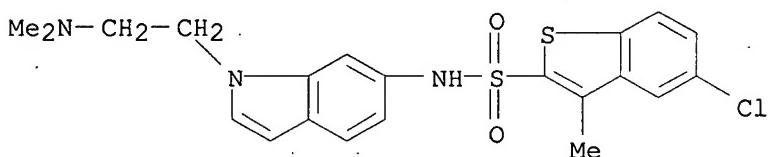
RN 753020-97-2 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



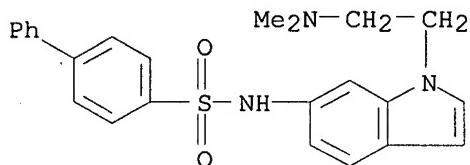
RN 844477-59-4 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



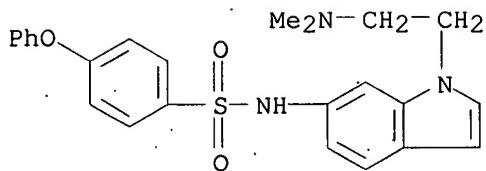
RN 844477-64-1 CAPLUS

CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)

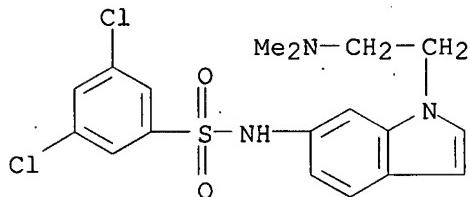


RN 844477-68-5 CAPLUS

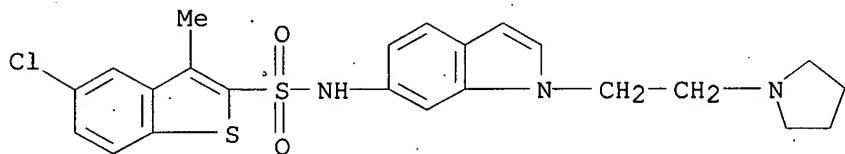
CN Benzenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-4-phenoxy- (9CI) (CA INDEX NAME)



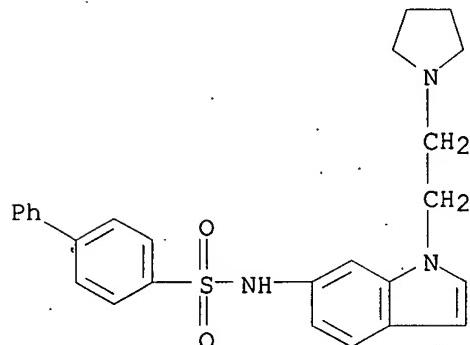
RN 844477-70-9 CAPLUS
 CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



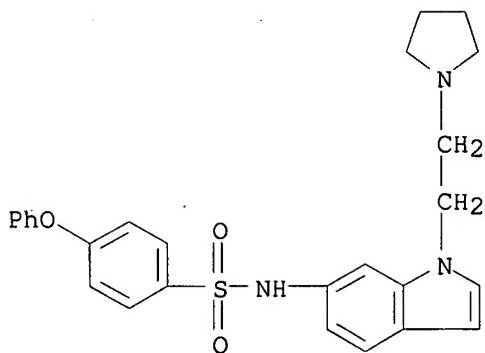
RN 844477-72-1 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



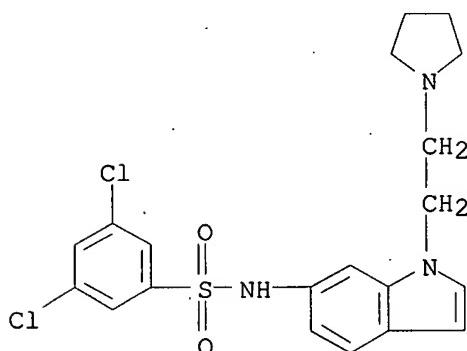
RN 844477-79-8 CAPLUS
 CN [1,1'-Biphenyl]-4-sulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-84-5 CAPLUS
 CN Benzenesulfonamide, 4-phenoxy-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-87-8 CAPLUS
 CN Benzenesulfonamide, 3,5-dichloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:725572 CAPLUS
 DOCUMENT NUMBER: 142:211383
 TITLE: Medicinal Chemistry Driven Approaches Toward Novel and Selective Serotonin 5-HT₆ Receptor Ligands
 Holenz, Joerg; Merce, Ramon; Diaz, Jose Luis; Guitart, Xavier; Codony, Xavier; Dordal, Alberto; Romero, Gonzalo; Torrens, Antoni; Mas, Josep; Andaluz, Blas; Hernandez, Susana; Monroy, Xavier; Sanchez, Elisabeth; Hernandez, Enrique; Perez, Raquel; Cubi, Roger; Sanfeliu, Olga; Buschmann, Helmut
 AUTHOR(S):
 CORPORATE SOURCE: Departments of Medicinal Chemistry, Discovery Biology and Discovery Chemistry, Laboratorios Dr. Esteve S.A., Barcelona, 08041, Spain
 SOURCE: Journal of Medicinal Chemistry (2005), 48(6), 1781-1795
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:211383
 AB Based on a medicinal chemical guided hypothetical pharmacophore model, novel series of indolyl sulfonamides have been designed and prepared as selective and high-affinity serotonin 5-HT₆ receptor ligands. Furthermore, based on a screening approach of a discovery library, a series of benzoxazinepiperidinyl sulfonamides were identified as selective 5-HT₆

ligands. Many of the compds. described in this paper possess excellent affinities, displaying pKi values greater than 8 (some even >9) and high selectivities against a wide range (>50) of other CNS relevant receptors. First, structure-affinity relationships of these ligands are discussed. In terms of functionality, high-affinity antagonists, as well as agonists and even partial agonists, were prepared. Compds. 19c and 19g represent the highest-affinity 5-HT6 agonists ever reported in the literature. These valuable tool compds. should allow for the detailed study of the role of the 5-HT6 receptor in relevant animal models of disorders such as cognition deficits, depression, anxiety, or obesity.

IT

753020-88-1P 753020-89-2P 753020-90-5P

753020-91-6P 753020-93-8P 753020-94-9P

753020-96-1P 753020-97-2P 844477-72-1P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

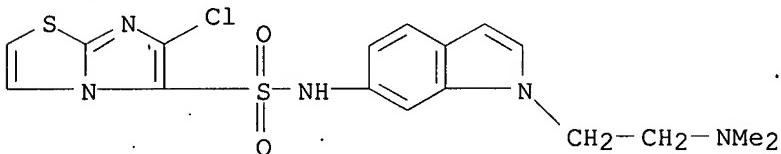
(medicinal chemical driven approaches toward novel and selective serotonin 5-HT6 receptor ligands)

RN

753020-88-1 CAPLUS

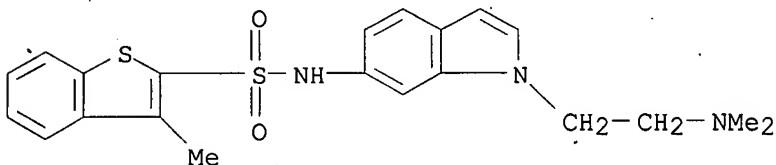
CN

Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



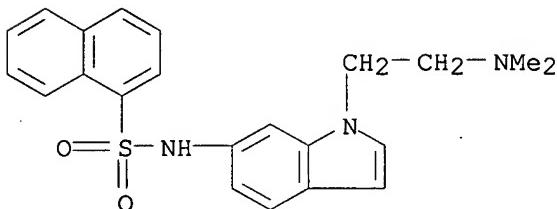
RN 753020-89-2 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



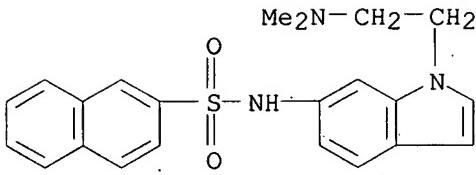
RN 753020-90-5 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



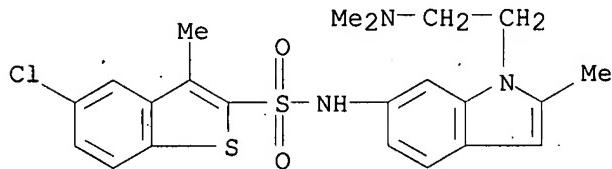
RN 753020-91-6 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(dimethylamino)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



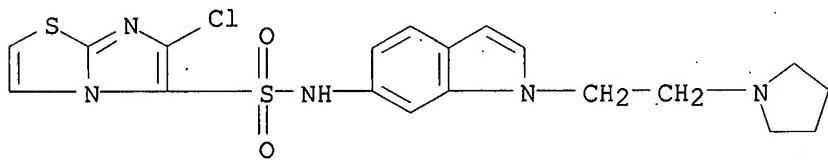
RN 753020-93-8 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[1-[2-(dimethylamino)ethyl]-2-methyl-1H-indol-6-yl]-3-methyl- (9CI) (CA INDEX NAME)



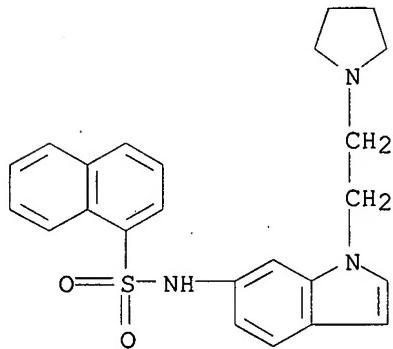
RN 753020-94-9 CAPLUS

CN Imidazo[2,1-b]thiazole-5-sulfonamide, 6-chloro-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



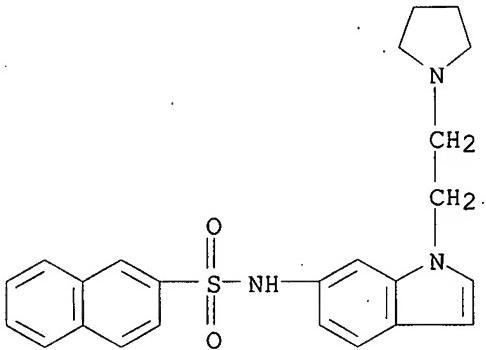
RN 753020-96-1 CAPLUS

CN 1-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



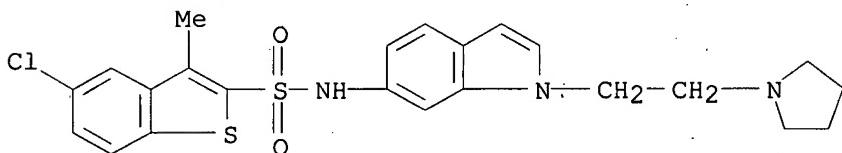
RN 753020-97-2 CAPLUS

CN 2-Naphthalenesulfonamide, N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



RN 844477-72-1 CAPLUS

CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-3-methyl-N-[1-[2-(1-pyrrolidinyl)ethyl]-1H-indol-6-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:412918 CAPLUS

DOCUMENT NUMBER: 140:423584

TITLE: A preparation of indole derivatives useful in the treatment of androgen-receptor related diseases

INVENTOR(S): Hermkens, Pedro Harold Han; Stock, Herman Thijs; Teerhuis, Neeltje Miranda; Lommerse, Johannes Petrus Maria; Van der Louw, Jaap

PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

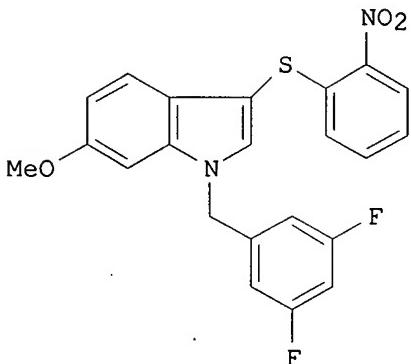
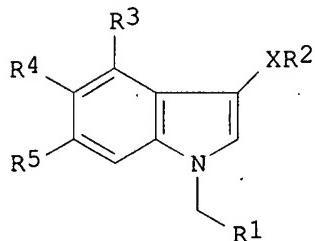
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041782	A1	20040521	WO 2003-EP50783	20031103
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2504907	A1	20040521	CA 2003-2504907	20031103
AU 2003301853	A1	20040607	AU 2003-301853	20031103
BR 2003016020	A	20050920	BR 2003-16020	20031103
EP 1585727	A1	20051019	EP 2003-810458	20031103

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 CN 1714078 A 20051228 CN 2003-80103950 20031103
 JP 2006507293 T 20060302 JP 2004-549180 20031103
 NO 2005002012 A 20050526 NO 2005-2012 20050425
 MX 2005PA04929 A 20050818 MX 2005-PA4929 20050506
 US 2006128722 A1 20060615 US 2005-534945 20050506
 LV 13359 B 20060320 LV 2005-68 20050607
 PRIORITY APPLN. INFO.: EP 2002-79648 A 20021107
 OTHER SOURCE(S): MARPAT 140:423584 P 20021107
 GI WO 2003-EP50783 W 20031103

OTHER SOURCE(S):
GI



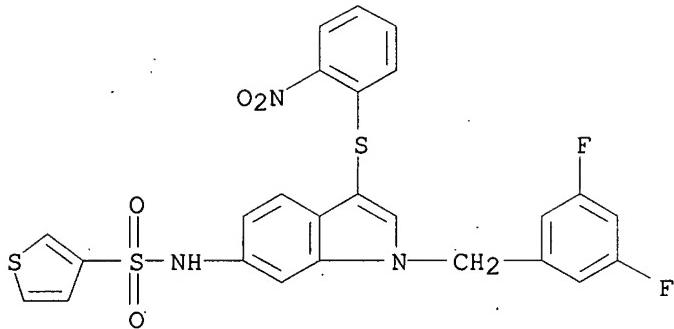
AB The invention relates to a preparation of indole derivs. of formula I [wherein:
 X = S, S(O), SO₂; R1 is (un)substituted 5- or 6-membered monocyclic,
 (hetero/homo)cyclic ring; R2 is 2-O₂NC₆H₄, 2-cyanophenyl,
 2-hydroxymethylphenyl, pyridin-2-yl, pyridin-2-yl-N-oxide, etc.; R3 is H,
 halogen or C₁-4alkyl; R4 is H, OH, C₁-4alkoxy, or halogen; R5 is H, OH,
 C₁-4alkoxy, NH₂, CN, halogen, C₁-4fluoroalkyl, or NO₂, etc.], useful for
 the treatment of androgen-receptor related diseases. Anti-androgenic
 activity of the invented compds. was determined in an in vitro bioassay of
 Chinese hamster ovary (CHO) cells stably transfected with the human
 androgen receptor expression plasmid and a reporter plasmid in which the
 MMTV-promoter was linked to the luciferase reporter gene. For instance,
 indole derivs. II (EC₅₀ < 5 nM; efficacy > 0.8) was prepared via
 N-benzylation of 6-methoxyindole by 3,5-difluorobenzyl bromide, and
 subsequent addition of the obtained 1-(3,5-difluorobenzyl)-6-methoxy-1H-
 indole to 2-nitrobenzenesulfenyl chloride (example 1).

IT 691400-43-8P 691400-44-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of indole derivs. useful in the treatment of androgen-receptor
 related diseases)

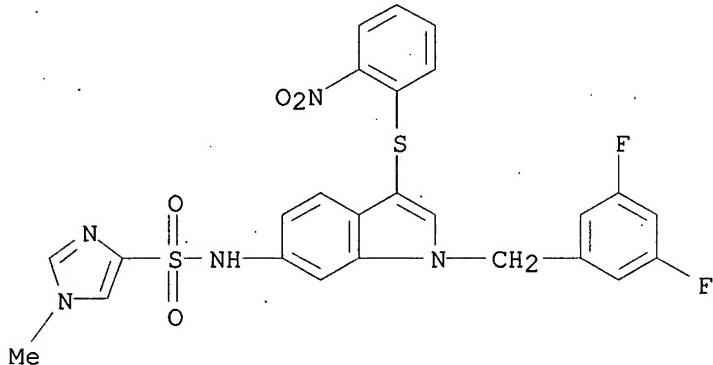
RN 691400-43-8 CAPLUS

CN 3-Thiophenesulfonamide, N-[1-[(3,5-difluorophenyl)methyl]-3-[(2-nitrophenyl)thio]-1H-indol-6-yl]-(9CI) (CA INDEX NAME)



RN 691400-44-9 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[1-[(3,5-difluorophenyl)methyl]-3-[(2-nitrophenyl)thio]-1H-indol-6-yl]-1-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:389755 CAPLUS

DOCUMENT NUMBER: 139:270249

TITLE: New Analogues of the Anticancer E7070: Synthesis and Pharmacology

AUTHOR(S): Laconde, G.; Pommery, N.; Depreux, P.; Berthelot, P.; Henichart, J.-P.

CORPORATE SOURCE: Institut de Chimie Pharmaceutique Albert Lespagnol, EA 2692, Lille, 59006, Fr.

SOURCE: Journal of Enzyme Inhibition and Medicinal Chemistry (2003), 18(2), 89-94

CODEN: JEIMAZ; ISSN: 1475-6366

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

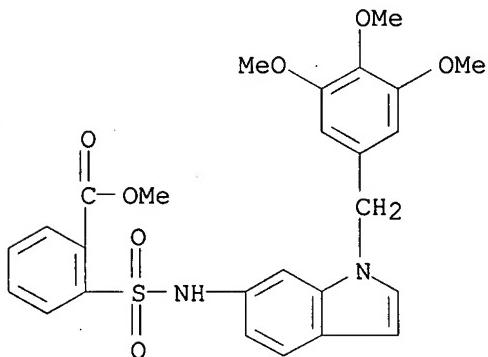
OTHER SOURCE(S): CASREACT 139:270249

AB Cell cycle control in the G1 phase has attracted considerable attention in recent cancer research, because many of the important proteins involved in G1 progression or G1/S transition have been found to play a crucial role in proliferation, differentiation, transformation, and programmed cell death (apoptosis). E7070 is a novel antitumor sulfonamide, with a unique mode of action that affects G1 progression of the cell cycle. A series of compds. containing an N-[1-(3,4,5-trimethoxybenzyl)-1H-indol-5-yl]benzene sulfonamide, analogs of E7070, was synthesized and evaluated as potential antitumor agents. Cell cycle anal. with PC3 human prostate cancer cells revealed a cellular accumulation in the G1 phase.

IT 605657-93-0P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)
(synthesis and activity of anticancer E7070 analogs)
RN 605657-93-0 CAPLUS
CN Benzoic acid, 2-[[[1-[(3,4,5-trimethoxyphenyl)methyl]-1H-indol-6-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	43.57	215.88	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-6.24	-6.24	

FILE 'STNGUIDE' ENTERED AT 11:17:48 ON 18 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 13, 2007 (20070713/UP).

=> d his

(FILE 'HOME' ENTERED AT 11:15:22 ON 18 JUL 2007)

FILE 'REGISTRY' ENTERED AT 11:15:40 ON 18 JUL 2007
STRUCTURE uploaded
L1 2 S L1
L2 20 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:16:07 ON 18 JUL 2007
L4 8 S L3 FULL

FILE 'STNGUIDE' ENTERED AT 11:17:48 ON 18 JUL 2007

=> log y			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	0.90	216.78	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	0.00	-6.24	

STN INTERNATIONAL LOGOFF AT 11:26:37 ON 18 JUL 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSPTANXR1625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 3 MAR 16 CASREACT coverage extended
NEWS 4 MAR 20 MARPAT now updated daily
NEWS 5 MAR 22 LWPII reloaded
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN
NEWS 8 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 10 APR 30 CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 12 MAY 01 New CAS web site launched
NEWS 13 MAY 08 CA/CAplus Indian patent publication number format defined
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 17 MAY 21 CA/CAplus enhanced with additional kind codes for German patents
NEWS 18 MAY 22 CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 19 JUN 27 CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20 JUN 29 STN Viewer now available
NEWS 21 JUN 29 STN Express, Version 8.2, now available
NEWS 22 JUL 02 LEMBASE coverage updated
NEWS 23 JUL 02 LMEDLINE coverage updated
NEWS 24 JUL 02 SCISEARCH enhanced with complete author names
NEWS 25 JUL 02 CHEMCATS accession numbers revised
NEWS 26 JUL 02 CA/CAplus enhanced with utility model patents from China
NEWS 27 JUL 16 CAplus enhanced with French and German abstracts
NEWS 28 JUL 18 CA/CAplus patent coverage enhanced

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may

126. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:71.

127. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:72.

5 128. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:73.

129. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:74.

130. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:75.

10 131. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:76.

132. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:77.

15 133. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:78.

134. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:79.

135. A polypeptide of claim 1, comprising the amino acid sequence of SEQ ID NO:80.

20 136. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:81.

25 137. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:82.

138. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:83.

30 139. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:84.

140. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:85.

141. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:86.

142. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:87.

143. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:88.

10 144. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:89.

145. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:90.

15 146. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:91.

147. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
20 NO:92.

148. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:93.

25 149. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:94.

150. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:95.

30 151. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:96.

152. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
35 NO:97.

153. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:98.

154. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID 5 NO:99.

155. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:100.

10 156. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:101.

157. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:102.

15 158. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:103.

159. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID 20 NO:104.

160. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:105.

25 161. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:106.

162. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID 30 NO:107.

163. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:108.

35 164. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:109.

165. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:110.

166. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:111.

167. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:112.

10 168. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:113.

169. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:114.

15 170. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:115.

171. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
20 NO:116.

172. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:117.

25 173. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:118.

174. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:119.

30 175. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:120.

176. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
35 NO:121.

177. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:122.

178. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:123.

179. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:124.

10 180. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:125.

181. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:126.

15 182. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:127.

183. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
20 NO:128.

184. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:129.

25 185. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:130.

186. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
NO:131.

30 187. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:132.

188. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
35 NO:133.

189. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:134.

190. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:135.

191. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:136.

10 192. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:137.

193. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:138.

15 194. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:139.

195. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
20 NO:140.

196. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:141.

25 197. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:142.

198. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:143.

30 199. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:144.

200. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
35 NO:145.

201. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:146.

202. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:147.

203. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:148.

10 204. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:149.

205. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:150.

15 206. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:151.

207. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
20 NO:152.

208. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:153.

25 209. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:154.

210. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:155.

30 211. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:156.

212. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
35 NO:157.

213. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:158.

214. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID
5 NO:159.

215. A polynucleotide of claim 12, comprising the polynucleotide sequence of SEQ ID NO:160.

<110> INCYTE GENOMICS, INC.
TANG, Y. Tom
WARREN, Bridget A.
GIETZEN, Kimberly J.
LAL, Preeti G.
YUE, Henry
HONCHELL, Cynthia D.
LEHR-MASON, Patricia M.
BURFORD, Neil
XU, Yuming
BAUGHN, Mariah R.
DUGGAN, Brendan M.
TRAN, Uyen K.
LEE, Ernestine A.
FORSYTHE, Ian J.
RICHARDSON, Thomas W.
LEE, Sally
THANGAVELU, Kavitha
YUE, Huibin
EMERLING, Brooke M.
WALIA, Narinder K.
AZIMZAI, Yalda
SANJANWALA Bharati
HAFALIA, April J.A.
BOROWSKY, Mark L.
NGUYEN, Dannie B.
ISON, Craig H.
ASTROMOFF, Anna
DING, Li
LEE, Soo Yeun
BECHA, Shanya D.
RAMKUMAR, Jayalaxmi
GANDHI, Ameena R.
JIN, Pei
FU, Glenn K.
SWARNAKAR, Anita

<120> SECRETED PROTEINS

<130> PF-1141 PCT

<140> To Be Assigned
<141> Herewith

<150> US 60/313,249
<151> 2001-08-17

<150> US 60/314,752
<151> 2001-08-24

<150> US 60/317,818
<151> 2001-09-07

<150> US 60/317,824
<151> 2001-09-07

<150> US 60/324,040
<151> 2001-09-21

<150> US 60/324,586
<151> 2001-09-24

<150> US 60/343,980
<151> 2001-11-02

<150> US 60/334,229
<151> 2001-11-28

<150> US 60/357,002
<151> 2002-02-13

<150> US 60/362,439
<151> 2002-03-06

<150> US 60/366,041
<151> 2002-03-19

<150> US 60/376,988
<151> 2002-04-30

<160> 160

<170> PERL Program

<210> 1
<211> 269
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1417062CD1

<400> 1
Met Leu Leu Leu Asp Leu Met Ser Ser Pro Ser Pro Gln Leu Leu
1 5 10 15
Val Ala Ala Ala Gln Gln Thr Leu Gly Met Gly Lys Arg Arg Ser
20 25 30
Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu Val Leu Ala
35 40 45
Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys Asn Cys
50 55 60
Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys Gly
65 70 75
Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu
80 85 90
Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu
95 100 105
Gln Val Leu Leu Gly Thr Ile Ala Phe Val Asp Val Ser Ser Cys
110 115 120
Gln Arg His Pro Ser Val Cys Ser Leu Asp Gln Leu Gln Asp Leu
125 130 135
Lys Ala Leu Val Ala Glu Ile Ile Thr His Leu Gln-Gly Leu Gln
140 145 150
Arg Asp Leu Ser Leu Ala Val Ser Tyr Ser Arg Leu His Ser Ser
155 160 165
Asp Trp Asn Leu Cys Thr Val Phe Gly Ile Leu Leu Gly Tyr Pro
170 175 180
Val Pro Tyr Thr Phe His Leu Asn Gln Gly Asp Asp Asn Cys Leu
185 190 195
Ala Leu Thr Pro Leu Arg Val Phe Thr Ala Arg Ile Ser Trp Leu
200 205 210
Leu Gly Gln Pro Pro Ile Leu Leu Tyr Ser Phe Ser Val Pro Glu
215 220 225
Ser Leu Phe Pro Gly Leu Arg Asp Ile Leu Asn Thr Trp Glu Lys
230 235 240
Asp Leu Arg Thr Arg Phe Arg Thr Gln Asn Asp Phe Ala Asp Leu
245 250 255
Ser Ile Ser Ser Glu Ile Val Thr Leu Pro Ala Val Ala Leu
260 265

<210> 2

<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2007701CD1

<400> 2
Met Thr Thr Asn Leu Asp Leu Lys Val Ser Met Leu Ser Phe Ile
1 5 10 15
Ser Ala Thr Cys Leu Leu Cys Leu Asn Leu Phe Val Ala Gln
20 25 30
Val His Trp His Thr Arg Asp Ala Met Glu Ser Asp Leu Leu Trp
35 40 45
Thr Tyr Tyr Leu Asn Trp Cys Ser Asp Ile Phe Tyr Met Phe Ala
50 55 60
Gly Ile Ile Ser Leu Leu Asn Tyr Leu Thr Ser Arg Ser Pro Ala
65 70 75
Cys Asp Glu Asn Val Thr Val Ile Pro Thr Glu Arg Ser Arg Leu
80 85 90
Gly Val Gly Pro Val Thr Thr Val Ser Pro Ala Lys Asp Glu Gly
95 100 105
Pro Arg Ser Glu Met Glu Ser Leu Ser Val Arg Glu Lys Asn Leu
110 115 120
Pro Lys Ser Gly Leu Trp Trp
125

<210> 3
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2915695CD1

<400> 3
Met Leu His Ile Thr Ser Leu Phe Leu Trp Leu Leu Ala Gly Ala
1 5 10 15
Val Leu Gln Ala Thr Gly His Ser Leu Gly Leu Arg Pro Ala Ser
20 25 30
Pro Val Phe His Arg Glu Val Arg Cys Ile Gly Trp Val Arg Cys
35 40 45
Leu Phe Cys Ser Ile Ile Ser Ser Phe Leu Met Cys Lys Asn Gly
50 55 60
Arg Leu Glu Thr Val Ser Asp Ser Lys Ala Thr
65 70

<210> 4
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2969449CD1

<400> 4
Met Leu Leu Leu His Gly Phe Trp Thr Cys Cys Ser Leu Ala Pro
1 5 10 15
Ala Val Ala Gln Lys Ala Val Leu Ala Ala Leu Ala Pro Phe Arg
20 25 30
Ser Phe Phe Arg Tyr Tyr Leu Leu Gly Glu Ser Phe Leu Thr Thr
35 40 45
Leu Phe Lys Ala His His Ala Ser Pro Thr Thr Pro His Val Pro

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| Ser | Trp | Pro | Glu | Phe | Phe | His | Ser | Thr | Asp | Cys | Asn | Gln | Tyr | Thr | 50 | 55 | 60 |
| | | | | | | | | | | | | | | | 65 | 70 | 75 |
| Leu | Tyr | Val | Phe | Tyr | Val | Phe | Thr | | | | | | | | 80 | | |

<210> 5
<211> 306
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2994102CD1

| | | | | | | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|----|-----|
| <400> | 5 | | | | | | | | | | | | | | | | | | |
| Met | Gly | Glu | Asp | Ser | Pro | Val | Ala | Met | Phe | Ser | Trp | Tyr | Leu | Asp | 1 | 5 | 10 | 15 | |
| Asn | Thr | Pro | Thr | Glu | Gln | Ala | Glu | Pro | Leu | Pro | Asp | Ala | Cys | Arg | 20 | | 25 | | 30 |
| Leu | Arg | Gly | Phe | Trp | Pro | Arg | Ser | Leu | Thr | Leu | Leu | Gln | Ser | Asn | 35 | | 40 | | 45 |
| Thr | Ser | Thr | Leu | Leu | Leu | Asn | Ser | Ser | Phe | Leu | Gln | Ser | Arg | Gly | 50 | | 55 | | 60 |
| Glu | Val | Ile | Arg | Ile | Arg | Ala | Thr | Ala | Leu | Thr | Arg | His | Ala | Tyr | 65 | | 70 | | 75 |
| Gly | Glu | Asp | Thr | Tyr | Val | Ile | Ser | Thr | Val | Pro | Pro | Arg | Glu | Val | 80 | | 85 | | 90 |
| Pro | Ala | Cys | Thr | Ile | Ala | Pro | Glu | Glu | Gly | Thr | Val | Leu | Thr | Ser | 95 | | 100 | | 105 |
| Phe | Ala | Ile | Phe | Cys | Asn | Ala | Ser | Thr | Ala | Leu | Gly | Pro | Leu | Glu | 110 | | 115 | | 120 |
| Phe | Cys | Phe | Cys | Leu | Glu | Ser | Gly | Ser | Cys | Leu | His | Cys | Gly | Pro | 125 | | 130 | | 135 |
| Glu | Pro | Ala | Leu | Pro | Ser | Val | Tyr | Leu | Pro | Leu | Gly | Glu | Glu | Asn | 140 | | 145 | | 150 |
| Asn | Asp | Phe | Val | Leu | Thr | Val | Val | Ile | Ser | Ala | Thr | Asn | Arg | Ala | 155 | | 160 | | 165 |
| Gly | Asp | Thr | Gln | Gln | Thr | Gln | Ala | Met | Ala | Lys | Val | Ala | Leu | Gly | 170 | | 175 | | 180 |
| Asp | Thr | Cys | Val | Glu | Asp | Val | Ala | Phe | Gln | Ala | Ala | Val | Ser | Glu | 185 | | 190 | | 195 |
| Lys | Ile | Pro | Thr | Ala | Leu | Gln | Gly | Glu | Gly | Gly | Pro | Glu | Gln | Leu | 200 | | 205 | | 210 |
| Leu | Gln | Leu | Ala | Lys | Ala | Val | Ser | Ser | Met | Leu | Asn | Gln | Glu | His | 215 | | 220 | | 225 |
| Glu | Ser | Gln | Gly | Ser | Gly | Gln | Ser | Leu | Ser | Ile | Asp | Val | Arg | Gln | 230 | | 235 | | 240 |
| Lys | Val | Arg | Glu | His | Val | Leu | Gly | Ser | Leu | Ser | Ala | Val | Thr | Thr | 245 | | 250 | | 255 |
| Gly | Leu | Glu | Asp | Val | Gln | Arg | Val | Gln | Glu | Leu | Ala | Glu | Val | Leu | 260 | | 265 | | 270 |
| Arg | Glu | Val | Thr | Cys | Arg | Ser | Lys | Glu | Leu | Thr | Pro | Ser | Ala | Gln | 275 | | 280 | | 285 |
| Gly | Ser | Cys | Met | Gly | Asp | Ser | Trp | Glu | Gly | Ala | Pro | Pro | Ala | Ala | 290 | | 295 | | 300 |
| His | Val | Ser | His | Ala | Arg | | | | | | | | | | 305 | | | | |

<210> 6
<211> 334
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3410251CD1

<400> 6

| | | | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Gly | Pro | Ser | Trp | Leu | Arg | Pro | Arg | Pro | Leu | Leu | Leu | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |
| Leu | Leu | Leu | Leu | Ser | Pro | Trp | Pro | Val | Trp | Ala | His | Val | Ser | Ala |
| | | | | | 20 | | | 25 | | | | | 30 | |
| Thr | Ala | Ser | Pro | Ser | Gly | Ser | Leu | Gly | Ala | Pro | Asp | Cys | Pro | Glu |
| | | | | | 35 | | | 40 | | | | | 45 | |
| Val | Cys | Thr | Cys | Val | Pro | Gly | Gly | Leu | Ala | Ser | Cys | Ser | Ala | Leu |
| | | | | 50 | | | | 55 | | | | | 60 | |
| Ser | Leu | Pro | Ala | Val | Pro | Pro | Gly | Leu | Ser | Leu | Arg | Leu | Arg | Ala |
| | | | | 65 | | | | 70 | | | | | 75 | |
| Leu | Leu | Leu | Asp | His | Asn | Arg | Val | Arg | Ala | Leu | Pro | Pro | Gly | Ala |
| | | | | 80 | | | | 85 | | | | | 90 | |
| Phe | Ala | Gly | Ala | Gly | Ala | Leu | Gln | Arg | Leu | Asp | Leu | Arg | Glu | Asn |
| | | | | 95 | | | | 100 | | | | | 105 | |
| Gly | Leu | His | Ser | Val | His | Val | Arg | Ala | Phe | Trp | Gly | Leu | Gly | Ala |
| | | | | 110 | | | | 115 | | | | | 120 | |
| Leu | Gln | Leu | Leu | Asp | Leu | Ser | Ala | Asn | Gln | Leu | Glu | Ala | Leu | Ala |
| | | | | 125 | | | | 130 | | | | | 135 | |
| Pro | Gly | Ala | Phe | Ala | Pro | Leu | Arg | Ala | Leu | Arg | Asn | Leu | Ser | Leu |
| | | | | 140 | | | | 145 | | | | | 150 | |
| Ala | Gly | Asn | Arg | Leu | Ala | Arg | Leu | Glu | Pro | Ala | Ala | Leu | Gly | Ala |
| | | | | 155 | | | | 160 | | | | | 165 | |
| Leu | Pro | Leu | Ileu | Arg | Ser | Leu | Ser | Leu | Gln | Asp | Asn | Glu | Leu | Ala |
| | | | | 170 | | | | 175 | | | | | 180 | |
| Ala | Leu | Ala | Pro | Gly | Leu | Leu | Gly | Arg | Leu | Pro | Ala | Leu | Asp | Ala |
| | | | | 185 | | | | 190 | | | | | 195 | |
| Leu | His | Leu | Arg | Gly | Asn | Pro | Trp | Gly | Cys | Gly | Cys | Ala | Leu | Arg |
| | | | | 200 | | | | 205 | | | | | 210 | |
| Pro | Leu | Cys | Ala | Trp | Leu | Arg | Arg | His | Pro | Leu | Pro | Ala | Ser | Glu |
| | | | | 215 | | | | 220 | | | | | 225 | |
| Ala | Glu | Thr | Val | Leu | Cys | Val | Trp | Pro | Gly | Arg | Leu | Thr | Leu | Ser |
| | | | | 230 | | | | 235 | | | | | 240 | |
| Pro | Leu | Thr | Ala | Phe | Ser | Asp | Ala | Ala | Phe | Ser | His | Cys | Ala | Gln |
| | | | | 245 | | | | 250 | | | | | 255 | |
| Pro | Leu | Ala | Leu | Arg | Asp | Leu | Ala | Val | Val | Tyr | Thr | Leu | Gly | Pro |
| | | | | 260 | | | | 265 | | | | | 270 | |
| Ala | Ser | Phe | Leu | Val | Ser | Leu | Ala | Ser | Cys | Leu | Ala | Leu | Gly | Ser |
| | | | | 275 | | | | 280 | | | | | 285 | |
| Gly | Leu | Thr | Ala | Cys | Arg | Ala | Arg | Arg | Arg | Arg | Leu | Arg | Thr | Ala |
| | | | | 290 | | | | 295 | | | | | 300 | |
| Ala | Leu | Arg | Pro | Pro | Arg | Pro | Pro | Asp | Pro | Asn | Pro | Asp | Pro | Asp |
| | | | | 305 | | | | 310 | | | | | 315 | |
| Pro | His | Gly | Cys | Ala | Ser | Pro | Ala | Asp | Pro | Gly | Ser | Pro | Ala | Ala |
| | | | | 320 | | | | 325 | | | | | 330 | |
| Ala | Ala | Gln | Ala | | | | | | | | | | | |

<210> 7

<211> 950

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5330327CD1

<400> 7

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Thr | Thr | Met | Ser | Val | Arg | Leu | Arg | Phe | Leu | Ser | Pro | Gly |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |
| Asp | Thr | Gly | Ala | Val | Gly | Val | Val | Gly | Arg | Ser | Ala | Ser | Phe | Ala |
| | | | | 20 | | | | 25 | | | | | 30 | |
| Gly | Phe | Ser | Ser | Ala | Gln | Ser | Arg | Arg | Ile | Ala | Lys | Ser | Ile | Asn |
| | | | | 35 | | | | 40 | | | | | 45 | |
| Arg | Asn | Ser | Val | Arg | Ser | Arg | Met | Pro | Ala | Lys | Ser | Ser | Lys | Met |
| | | | | 50 | | | | 55 | | | | | 60 | |

Tyr Gly Thr Leu Arg Lys Gly Ser Val Cys Ala Asp Pro Lys Pro
 65 70 75
 Gln Gln Val Lys Ile Phe Glu Ala Leu Lys Arg Gly Leu Lys
 80 85 90
 Glu Tyr Leu Cys Val Gln Gln Ala Glu Leu Asp His Leu Ser Gly
 95 100 105
 Arg His Lys Asp Thr Arg Arg Asn Ser Arg Leu Ala Phe Tyr Tyr
 110 115 120
 Asp Leu Asp Lys Gln Thr Arg Cys Val Glu Arg His Ile Arg Lys
 125 130 135
 Met Glu Phe His Ile Ser Lys Val Asp Glu Leu Tyr Glu Asp Tyr
 140 145 150
 Cys Ile Gln Cys Arg Leu Arg Asp Gly Ala Ser Ser Met Gln Arg
 155 160 165
 Ala Phe Ala Arg Cys Pro Pro Ser Arg Ala Ala Arg Glu Ser Leu
 170 175 180
 Gln Glu Leu Gly Arg Ser Leu His Glu Cys Ala Glu Asp Met Trp
 185 190 195
 Leu Ile Glu Gly Ala Leu Glu Val His Leu Gly Glu Phe His Ile
 200 205 210
 Arg Met Lys Gly Leu Val Gly Tyr Ala Arg Leu Cys Pro Gly Asp
 215 220 225
 His Tyr Glu Val Leu Met Arg Leu Gly Arg Gln Arg Trp Lys Leu
 230 235 240
 Lys Gly Arg Ile Glu Ser Asp Asp Ser Gln Thr Trp Asp Glu Glu
 245 250 255
 Glu Lys Ala Phe Ile Pro Thr Leu His Glu Asn Leu Asp Ile Lys
 260 265 270
 Val Thr Glu Leu Arg Gly Leu Gly Ser Leu Ala Val Gly Ala Val
 275 280 285
 Thr Cys Asp Ile Ala Asp Phe Phe Thr Thr Arg Pro Gln Val Ile
 290 295 300
 Val Val Asp Ile Thr Glu Leu Gly Thr Ile Lys Leu Gln Leu Glu
 305 310 315
 Val Gln Trp Asn Pro Phe Asp Thr Glu Ser Phe Leu Val Ser Pro
 320 325 330
 Ser Pro Thr Gly Lys Phe Ser Met Gly Ser Arg Lys Gly Ser Leu
 335 340 345
 Tyr Asn Trp Thr Pro Pro Ser Thr Pro Ser Phe Arg Glu Arg Tyr
 350 355 360
 Tyr Leu Ser Val Leu Gln Gln Pro Thr Gln Gln Ala Leu Leu Leu
 365 370 375
 Gly Gly Pro Arg Ala Thr Ser Ile Leu Ser Tyr Leu Ser Asp Ser
 380 385 390
 Asp Leu Arg Gly Pro Ser Leu Arg Ser Gln Ser Gln Glu Leu Pro
 395 400 405
 Glu Met Asp Ser Phe Ser Ser Glu Asp Pro Arg Asp Thr Glu Thr
 410 415 420
 Ser Thr Ser Ala Ser Thr Ser Asp Val Gly Phe Leu Pro Leu Thr
 425 430 435
 Phe Gly Pro His Ala Ser Ile Glu Glu Ala Arg Glu Asp Pro
 440 445 450
 Leu Pro Pro Gly Leu Leu Pro Glu Met Ala His Leu Ser Gly Gly
 455 460 465
 Pro Phe Ala Glu Gln Pro Gly Trp Arg Asn Leu Gly Gly Glu Ser
 470 475 480
 Pro Ser Leu Pro Gln Gly Ser Leu Phe His Ser Gly Thr Ala Ser
 485 490 495
 Ser Ser Gln Asn Gly His Glu Glu Gly Ala Thr Gly Asp Arg Glu
 500 505 510
 Asp Gly Pro Gly Val Ala Leu Glu Gly Pro Leu Gln Glu Val Leu
 515 520 525
 Glu Leu Leu Arg Pro Thr Asp Ser Thr Gln Pro Gln Leu Arg Glu
 530 535 540
 Leu Glu Tyr Gln Val Leu Gly Phe Arg Asp Arg Leu Lys Pro Cys
 545 550 555
 Arg Ala Arg Gln Glu His Thr Ser Ala Glu Ser Leu Met Glu Cys

| | | | |
|---|-----|-----|-----|
| | 560 | 565 | 570 |
| Ile Leu Glu Ser Phe Ala Phe Leu Asn Ala Asp Phe Ala Pro Asp | 575 | 580 | 585 |
| Glu Leu Ser Leu Phe Gly Gly Ser Gln Gly Leu Arg Lys Asp Arg | 590 | 595 | 600 |
| Pro Leu Pro Pro Pro Ser Ser Leu Lys Ala Ser Ser Arg Glu Leu | 605 | 610 | 615 |
| Thr Ala Gly Ala Pro Glu Leu Asp Val Leu Leu Met Val His Leu | 620 | 625 | 630 |
| Gln Val Cys Lys Ala Leu Leu Gln Lys Leu Ala Ser Pro Asn Leu | 635 | 640 | 645 |
| Ser Arg Leu Val Gln Glu Cys Leu Leu Glu Glu Val Ala Gln Gln | 650 | 655 | 660 |
| Lys His Val Leu Glu Thr Leu Ser Val Leu Asp Phe Glu Lys Val | 665 | 670 | 675 |
| Gly Lys Ala Thr Ser Ile Glu Glu Ile Ile Pro Gln Ala Ser Arg | 680 | 685 | 690 |
| Thr Lys Gly Cys Leu Lys Leu Trp Arg Gly Cys Thr Gly Pro Gly | 695 | 700 | 705 |
| Arg Val Leu Ser Cys Pro Ala Thr Thr Leu Leu Asn Gln Leu Lys | 710 | 715 | 720 |
| Lys Thr Phe Gln His Arg Val Arg Gly Lys Tyr Pro Gly Gln Leu | 725 | 730 | 735 |
| Glu Ile Ala Cys Arg Arg Leu Leu Glu Gln Val Val Ser Cys Gly | 740 | 745 | 750 |
| Gly Leu Leu Pro Gly Ala Gly Leu Pro Glu Glu Gln Ile Ile Thr | 755 | 760 | 765 |
| Trp Phe Gln Phe His Ser Tyr Leu Gln Arg Gln Ser Val Ser Asp | 770 | 775 | 780 |
| Leu Glu Lys His Phe Thr Gln Leu Thr Lys Glu Val Thr Leu Ile | 785 | 790 | 795 |
| Glu Glu Leu His Cys Ala Gly Gln Ala Lys Val Val Arg Lys Leu | 800 | 805 | 810 |
| Gln Gly Lys Arg Leu Gly Gln Leu Gln Pro Leu Pro Gln Thr Leu | 815 | 820 | 825 |
| Arg Ala Trp Ala Leu Leu Gln Leu Asp Gly Thr Pro Arg Val Cys | 830 | 835 | 840 |
| Arg Ala Ala Ser Ala Arg Leu Ala Gly Ala Val Arg Asn Arg Ser | 845 | 850 | 855 |
| Phe Arg Glu Lys Ala Leu Leu Phe Tyr Thr Asn Ala Leu Ala Glu | 860 | 865 | 870 |
| Asn Asp Ala Arg Leu Gln Gln Ala Ala Cys Leu Ala Leu Lys His | 875 | 880 | 885 |
| Leu Lys Gly Ile Glu Ser Ile Asp Gln Thr Ala Ser Leu Cys Gln | 890 | 895 | 900 |
| Ser Asp Leu Glu Ala Val Arg Ala Ala Arg Glu Thr Thr Leu | 905 | 910 | 915 |
| Ser Phe Gly Glu Lys Gly Arg Leu Ala Phe Glu Lys Met Asp Lys | 920 | 925 | 930 |
| Leu Cys Ser Glu Gln Arg Glu Val Phe Cys Gln Glu Ala Asp Val | 935 | 940 | 945 |
| Glu Ile Thr Ile Phe | | | |
| | 950 | | |

<210> 8
<211> 546
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5532048CD1

<400> 8
Met Asp Pro Lys Ala Gly Gly Gly Glu Glu Asp Asp Cys Val
1 5 10 15
Asp Ser Gly Ala Glu Thr Gly Ser Asp Tyr Ser His Leu Ser

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Ser | Ser | Glu | Leu | Ser | Val | Glu | Glu | Ala | Gln | Asp | Pro | Phe | 30 |
| | | | | 20 | | | | 25 | | | | | | | |
| | | | | 35 | | | | 40 | | | | | | | 45 |
| Leu | Val | Ser | Ile | His | Ile | Ile | Ala | Asp | Pro | Gly | Glu | Ser | Gln | Pro | 50 |
| | | | | 50 | | | | 55 | | | | | | | 60 |
| Leu | Gln | Glu | Ala | Ile | Asp | Asn | Val | Leu | Ala | Trp | Ile | His | Pro | Asp | 65 |
| | | | | 65 | | | | 70 | | | | | | | 75 |
| Leu | Pro | Leu | Phe | Arg | Val | Ser | Glu | Arg | Arg | Ala | Ser | Arg | Arg | Arg | 80 |
| | | | | 80 | | | | 85 | | | | | | | 90 |
| Arg | Lys | Pro | Pro | Lys | Gly | Ala | Gln | Pro | Ala | Leu | Ala | Val | Val | Leu | 95 |
| | | | | 95 | | | | 100 | | | | | | | 105 |
| Phe | Leu | Gln | Glu | Glu | Tyr | Gly | Glu | Glu | Gln | Ile | Leu | Gln | Leu | His | 110 |
| | | | | 110 | | | | 115 | | | | | | | 120 |
| Arg | Thr | Leu | Gln | Gln | Pro | Pro | Trp | Arg | His | His | His | Thr | Glu | Gln | 125 |
| | | | | 125 | | | | 130 | | | | | | | 135 |
| Val | His | Gly | Arg | Phe | Leu | Pro | Tyr | Leu | Pro | Cys | Ser | Gln | Asp | Phe | 140 |
| | | | | 140 | | | | 145 | | | | | | | 150 |
| Phe | Thr | Leu | Ala | Pro | Gly | Thr | Pro | Leu | Trp | Ala | Ile | Arg | Pro | Val | 155 |
| | | | | 155 | | | | 160 | | | | | | | 165 |
| His | Tyr | Gly | Lys | Glu | Ile | Val | Arg | Phe | Thr | Val | Tyr | Cys | Arg | Tyr | 170 |
| | | | | 170 | | | | 175 | | | | | | | 180 |
| Asp | Asn | Tyr | Ala | Asp | Ser | Leu | Arg | Phe | Tyr | Gln | Leu | Ile | Leu | Arg | 185 |
| | | | | 185 | | | | 190 | | | | | | | 195 |
| Arg | Ser | Pro | Ser | Gln | Lys | Lys | Ala | Asp | Phe | Cys | Ile | Phe | Pro | Ile | 200 |
| | | | | 200 | | | | 205 | | | | | | | 210 |
| Phe | Ser | Asn | Leu | Asp | Val | Asp | Ile | Gln | Phe | Ser | Leu | Lys | Arg | Leu | 215 |
| | | | | 215 | | | | 220 | | | | | | | 225 |
| Pro | Cys | Asp | Gln | Cys | Pro | Val | Pro | Thr | Asp | Ser | Ser | Val | Leu | Glu | 230 |
| | | | | 230 | | | | 235 | | | | | | | 240 |
| Phe | Arg | Val | Arg | Asp | Ile | Gly | Glu | Leu | Val | Pro | Leu | Leu | Pro | Asn | 245 |
| | | | | 245 | | | | 250 | | | | | | | 255 |
| Pro | Cys | Ser | Pro | Ile | Ser | Glu | Gly | Arg | Trp | Gln | Thr | Glu | Asp | His | 260 |
| | | | | 260 | | | | 265 | | | | | | | 270 |
| Asp | Gly | Asn | Lys | Ile | Leu | Leu | Gln | Ala | Gln | Arg | Val | His | Lys | Lys | 275 |
| | | | | 275 | | | | 280 | | | | | | | 285 |
| Phe | Pro | Lys | Pro | Gly | Arg | Val | His | His | Ala | Ser | Glu | Lys | Lys | Arg | 290 |
| | | | | 290 | | | | 295 | | | | | | | 300 |
| His | Ser | Thr | Pro | Leu | Pro | Ser | Thr | Ala | Val | Pro | Ser | His | Thr | Pro | 305 |
| | | | | 305 | | | | 310 | | | | | | | 315 |
| Gly | Ser | Ser | Gln | Gln | Ser | Pro | Leu | Asn | Ser | Pro | His | Pro | Gly | Pro | 320 |
| | | | | 320 | | | | 325 | | | | | | | 330 |
| Ile | Arg | Thr | Gly | Leu | Pro | Pro | Gly | His | Gln | Gln | Glu | Phe | Ala | Gly | 335 |
| | | | | 335 | | | | 340 | | | | | | | 345 |
| Arg | Ala | Asn | Ser | Thr | Pro | Asn | Pro | Pro | Trp | Ser | Phe | Gln | Arg | Ser | 350 |
| | | | | 350 | | | | 355 | | | | | | | 360 |
| Lys | Ser | Leu | Phe | Cys | Leu | Pro | Thr | Gly | Gly | Pro | Ser | Leu | Ala | Ser | 365 |
| | | | | 365 | | | | 370 | | | | | | | 375 |
| Ser | Ala | Glu | Pro | Gln | Trp | Phe | Ser | Asn | Thr | Gly | Ala | Pro | Gly | His | 380 |
| | | | | 380 | | | | 385 | | | | | | | 390 |
| Arg | Ala | Ser | Glu | Trp | Arg | His | Gly | His | Leu | Leu | Ser | Ile | Asp | Asp | 395 |
| | | | | 395 | | | | 400 | | | | | | | 405 |
| Leu | Glu | Gly | Ala | Gln | Glu | Thr | Asp | Val | Asp | Thr | Gly | Leu | Arg | Leu | 410 |
| | | | | 410 | | | | 415 | | | | | | | 420 |
| Ser | Ser | Ser | Asp | Leu | Ser | Val | Val | Ser | Ala | Tyr | Ser | Ala | Pro | Ser | 425 |
| | | | | 425 | | | | 430 | | | | | | | 435 |
| Arg | Phe | Cys | Ser | Thr | Val | Glu | Thr | Pro | Leu | Pro | Ser | Glu | Arg | Cys | 440 |
| | | | | 440 | | | | 445 | | | | | | | 450 |
| Ser | Ser | His | Trp | Ala | Ala | His | Lys | Asp | Ser | Arg | Glu | Gly | Pro | Leu | 455 |
| | | | | 455 | | | | 460 | | | | | | | 465 |
| Pro | Thr | Val | Ser | Arg | Val | Thr | Thr | Glu | Ala | Ser | Trp | Ala | Ser | Leu | 470 |
| | | | | 470 | | | | 475 | | | | | | | 480 |
| Pro | Phe | Phe | Thr | Lys | Arg | Ser | Ser | Ser | Ser | Ala | Thr | Ala | Arg | | 485 |
| | | | | 485 | | | | 490 | | | | | | | 495 |
| Ala | Ala | Pro | Pro | Ala | Pro | Ser | Thr | Ser | Thr | Leu | Thr | Asp | Ser | Ser | 500 |
| | | | | 500 | | | | 505 | | | | | | | 510 |
| Pro | Gln | Leu | Pro | Cys | Asp | Thr | Pro | Lys | Val | Lys | Gln | Thr | Asp | Gly | 515 |
| | | | | 515 | | | | 520 | | | | | | | 525 |

Asp Met Pro Pro Pro Pro Gly Ser Ala Gly Pro Gly Asp Asn Asp
 530 535 540
 Met Glu Glu Phe Tyr Ile
 545

<210> 9
 <211> 226
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 56002716CD1

<400> 9
 Met Lys His Phe Leu Val Thr Leu Ile Thr Leu Thr Ala Thr Thr
 1 5 10 15
 Leu Thr Ala His Ala Ala Arg Val Pro Asp Phe Asp Ser Leu Thr
 20 25 30
 Arg Val Ser Cys Ser Gly Gly Arg Gly Gly Ser Cys Val Gly
 35 40 45
 Val Pro Tyr Ile Gly Tyr His Cys Val Leu Asp Gln Leu Lys Asp
 50 55 60
 Gly Ser Arg Thr Ala Asn Ala Leu Pro Thr Gly Ser Glu Arg Ile
 65 70 75
 Cys Asp Gly Ala Gly Cys Asp Pro Arg Asp Ser Val Ile Pro Val
 80 85 90
 Tyr Ala Thr Ser Thr Ile Asp Val Glu Val Asn Ala Asn Leu Arg
 95 100 105
 Gly Val Ser Arg Arg Phe Asp Thr Ser Phe Pro Pro Thr Val Thr
 110 115 120
 Glu Glu Leu Asn Thr Met Gly Asn Ile Gly Ser Val Glu Asn Leu
 125 130 135
 Glu Pro Gly Ser Ala Gly Phe Ala Arg Ile Leu Arg Ala Phe Gly
 140 145 150
 Gly Lys Gln Thr Ser Gly Met Ser Pro Ala Glu Ala Arg Ala Val
 155 160 165
 Thr Leu Val Lys Val Tyr His Ile Asp Asp Ala His Asp Glu Val
 170 175 180
 Glu Asp Glu Lys Ser Ala Ala Ala Pro Glu Leu Leu Ile Arg Phe
 185 190 195
 Phe Arg Gly Glu Glu Gln Val Gly Gly Ser Val Leu Glu Arg Asp
 200 205 210
 Leu Lys Gly Leu Pro Ser Lys Thr Arg Ala Arg Ile Cys Thr Lys
 215 220 225
 Ile

<210> 10
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 60129797CD1

<400> 10
 Met Ser Pro Val Cys Pro Pro Ser Pro Val Val Leu Ala Cys Leu
 1 5 10 15
 Val Ser Ser Pro His Val Pro Ala Ser Leu Thr Pro Pro Pro Thr
 20 25 30
 Arg Gly Ser Pro Glu Ile Ala Glu Asn Ser Lys Arg Ser Pro Gly
 35 40 45
 Thr Gly Lys Lys Ser Arg Gln Gly Arg Leu Arg Ser Leu His Pro
 50 55 60
 Ser Leu Leu Pro Ser Leu His Pro Asp Pro Ala Gln Thr Phe Val

| | | |
|---|-----|-----|
| 65 | 70 | 75 |
| Thr Thr Pro Ser Leu Ser Pro Ala Gly Trp Val Gly Gly Ile Pro | | |
| 80 | 85 | 90 |
| Leu Cys Arg Trp Leu Pro Glu Ala Gly Gln Ala Ser Trp Ser Cys | | |
| 95 | 100 | 105 |
| Pro Arg Ser Trp Arg Ser Pro Cys His Ser Asp Pro Pro His Thr | | |
| 110 | 115 | 120 |
| Pro Gly Gly Ala Ala Leu His Pro Gly Ser | | |
| 125 | 130 | |

<210> 11
<211> 195
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6246243CD1

<400> 11

| | | | |
|---|-----|-----|----|
| Met Ala Val Ser Gln Gly Asp Gly Thr Leu Cys Phe Val Leu Leu | | | |
| 1 | 5 | 10 | 15 |
| Leu Cys Cys Trp Gln Glu Thr Glu Leu Arg Pro Arg Thr Val Ile | | | |
| 20 | 25 | 30 | |
| Pro Gly Ser Pro Thr Glu Ile Pro Phe Ser Ser Lys Gln Glu Asp | | | |
| 35 | 40 | 45 | |
| Met Ser Glu Leu Leu Asp Glu Ile Leu Val Gln Glu Ile Leu Asp | | | |
| 50 | 55 | 60 | |
| Leu Asn Lys Thr Thr Pro Ser Glu Met Pro Ser Thr Ala Ser Thr | | | |
| 65 | 70 | 75 | |
| Leu Ser Thr Pro Leu His Ala Gly Ile Asp Glu Asn Tyr Gln Ala | | | |
| 80 | 85 | 90 | |
| Gly Gly Ser Glu Asn Tyr His Glu Leu Leu Glu Asn Leu Gln Phe | | | |
| 95 | 100 | 105 | |
| Ser Pro Gly Ile Glu Val Lys Ile Ser Asn Asp Glu Ala Asn Ala | | | |
| 110 | 115 | 120 | |
| Asn Ala Asn Leu His Gly Asp Pro Ser Glu Asn Tyr Arg Gly Pro | | | |
| 125 | 130 | 135 | |
| Gln Val Ser Pro Gly Ser Glu Lys Ser Val Ser Ser Lys Glu Lys | | | |
| 140 | 145 | 150 | |
| Asn Ser Lys Asn Thr Gln Tyr Glu Asn Leu Ser Ile Leu Asp Gln | | | |
| 155 | 160 | 165 | |
| Ile Leu Gln Asn Ile Gly Arg Ser Ser Gly Asn Ile Phe His Lys | | | |
| 170 | 175 | 180 | |
| Glu Gln Gln Arg Thr Ser Ala Gln Arg Arg Ser Gln Gly Ser Gln | | | |
| 185 | 190 | 195 | |

<210> 12
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6804755CD1

<400> 12

| | | | |
|---|----|----|----|
| Met Cys Cys Trp Leu Lys Ser Met Lys Lys Ile Gln Pro Trp Leu | | | |
| 1 | 5 | 10 | 15 |
| Arg Met Leu Pro Ala Leu Ser Gly Ala Cys Ser Gly Leu Gln Pro | | | |
| 20 | 25 | 30 | |
| Ser Lys Ala Ala Val Cys Pro Ser Glu His Gly Ser Lys Arg Cys | | | |
| 35 | 40 | 45 | |
| Pro His Ala Met Gly Phe Asp Leu Ile Ile Cys Leu Glu Gly Ser | | | |
| 50 | 55 | 60 | |
| Gln Ala Leu His Glu Ser Pro Glu Gln Asp Trp Gln Pro Leu Leu | | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 65 | 70 | 75 | | | | | | | | | | | |
| Arg | Gly | Trp | Thr | Arg | Ile | His | Arg | Pro | Phe | Ser | Gln | Ser | Gly | Met |
| | | | | | | | | | | | | | | |
| | | | | 80 | | | 85 | | | | | | 90 | |
| Gly | Arg | Leu | Tyr | Cys | Ser | Tyr | Ser | Ala | Ser | Leu | Asp | Asn | Pro | Arg |
| | | | | | | | | | | | | | | |
| | | | | 95 | | | | 100 | | | | | 105 | |
| Phe | Leu | Asp | Ser | Phe | Leu | Gly | | | | | | | | |
| | | | | 110 | | | | | | | | | | |

<210> 13
<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6856852CD1

<400> 13

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Gly | Leu | Trp | Ala | Val | Leu | Ser | Leu | Leu | Ala | Gly | Leu | Leu |
| 1 | | | | 5 | | | | 10 | | | | | 15 | |
| Gly | Arg | Ala | Pro | Ser | Pro | Ser | Pro | Arg | Glu | Val | Arg | Leu | Arg | Gln |
| | | | | | | | | | | | | | | |
| | | | | | 20 | | | 25 | | | | | 30 | |
| Ala | Asp | Gly | Pro | Ser | Gly | Lys | Gly | His | Leu | Lys | Arg | Gln | Glu | Ala |
| | | | | | | | | | | | | | | |
| | | | | 35 | | | | 40 | | | | | 45 | |
| Arg | Ala | Val | Asn | Pro | Gly | Asp | Gly | Glu | Ala | Asp | Gly | Val | Gly | Gly |
| | | | | | | | | | | | | | | |
| | | | | 50 | | | | 55 | | | | | 60 | |
| Lys | Asp | Phe | Ala | Leu | Val | Asp | Phe | Phe | Gln | Lys | Gly | Trp | Lys | Gln |
| | | | | | | | | | | | | | | |
| | | | | 65 | | | | 70 | | | | | 75 | |
| Leu | Arg | Leu | Asn | Tyr | Leu | Gly | Thr | Cys | Pro | Gly | His | Leu | Leu | Leu |
| | | | | | | | | | | | | | | |
| | | | | 80 | | | | 85 | | | | | 90 | |
| Thr | Ser | Cys | Met | Thr | Leu | Gly | Lys | Ser | Arg | Thr | Leu | Gly | Phe | Trp |
| | | | | | | | | | | | | | | |
| | | | | 95 | | | | 100 | | | | | 105 | |
| Phe | Leu | | | | | | | | | | | | | |

<210> 14
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7482027CD1

<400> 14

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Leu | Ala | Leu | Thr | Leu | Leu | Leu | Ser | Gly | Leu | Gly | Ala | |
| 1 | | | | | 5 | | | 10 | | | | | 15 | |
| Pro | Gly | Gly | Trp | Gly | Cys | Leu | Gln | Cys | Asp | Pro | Leu | Val | Leu | Glu |
| | | | | | | | | | | | | | | |
| | | | | 20 | | | | 25 | | | | | 30 | |
| Ala | Leu | Gly | His | Leu | Arg | Ser | Ala | Leu | Ile | Pro | Ser | Arg | Phe | Gln |
| | | | | | | | | | | | | | | |
| | | | | 35 | | | | 40 | | | | | 45 | |
| Leu | Glu | Gln | Leu | Gln | Ala | Arg | Ala | Gly | Ala | Val | Leu | Met | Gly | Met |
| | | | | | | | | | | | | | | |
| | | | | 50 | | | | 55 | | | | | 60 | |
| Glu | Gly | Pro | Phe | Phe | Arg | Asp | Tyr | Ala | Leu | Asn | Val | Phe | Val | Gly |
| | | | | | | | | | | | | | | |
| | | | | 65 | | | | 70 | | | | | 75 | |
| Lys | Val | Glu | Thr | Asn | Gln | Leu | Asp | Leu | Val | Ala | Ser | Phe | Val | Lys |
| | | | | | | | | | | | | | | |
| | | | | 80 | | | | 85 | | | | | 90 | |
| Asn | Gln | Thr | Gln | His | Leu | Met | Gly | Asn | Ser | Leu | Lys | Asp | Glu | Pro |
| | | | | | | | | | | | | | | |
| | | | | 95 | | | | 100 | | | | | 105 | |
| Leu | Leu | Glu | Glu | Leu | Val | Thr | Leu | Arg | Ala | Asn | Val | Ile | Lys | Glu |
| | | | | | | | | | | | | | | |
| | | | | 110 | | | | 115 | | | | | 120 | |
| Phe | Lys | Lys | Val | Leu | Ile | Ser | Tyr | Glu | Leu | Lys | Ala | Cys | Asn | Pro |
| | | | | | | | | | | | | | | |
| | | | | 125 | | | | 130 | | | | | 135 | |
| Lys | Leu | Cys | Arg | Leu | Leu | Lys | Glu | Glu | Val | Leu | Asp | Cys | Leu | His |
| | | | | | | | | | | | | | | |
| | | | | 140 | | | | 145 | | | | | 150 | |
| Cys | Gln | Arg | Ile | Thr | Pro | Lys | Cys | Ile | His | Lys | Lys | Tyr | Cys | Phe |
| | | | | | | | | | | | | | | |
| | | | | 155 | | | | 160 | | | | | 165 | |

Val Asp Arg Gln Pro Arg Val Ala Leu Gln Tyr Gln Met Asp Ser
 170 175 180
 Lys Tyr Pro Arg Asn Gln Ala Leu Leu Gly Ile Leu Ile Ser Val
 185 190 195
 Ser Leu Ala Val Phe Val Phe Val Val Ile Val Val Ser Ala Cys
 200 205 210
 Thr Tyr Arg Gln Asn Arg Lys Leu Leu Leu Gln
 215 220

<210> 15

<211> 642

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7493507CD1

<400> 15

Met Val Ser Ala Ser Gln Asn Glu Val Pro Ala Ala Pro Leu Glu
 1 5 10 15
 Glu Leu Ala Tyr Arg Arg Ser Leu Arg Val Ala Leu Asp Val Leu
 20 25 30
 Ser Glu Gly Ser Ile Trp Ser Gln Glu Ser Ser Ala Gly Thr Gly
 35 40 45
 Arg Ala Asp Arg Ser Leu Arg Gly Lys Pro Met Glu His Val Ser
 50 55 60
 Ser Pro Cys Asp Ser Asn Ser Ser Ser Leu Pro Arg Gly Asp Val
 65 70 75
 Leu Gly Ser Ser Arg Pro His Arg Arg Arg Pro Cys Val Gln Gln
 80 85 90
 Ser Leu Ser Ser Ser Phe Thr Cys Glu Lys Asp Pro Glu Cys Lys
 95 100 105
 Val Asp His Lys Lys Gly Leu Arg Lys Ser Glu Asn Pro Arg Gly
 110 115 120
 Pro Leu Val Leu Pro Ala Gly Gly Ala Gln Asp Glu Ser Gly
 125 130 135
 Ser Arg Ile His His Lys Asn Trp Thr Leu Ala Ser Lys Arg Gly
 140 145 150
 Arg Asn Ser Ala Gln Lys Ala Ser Leu Cys Leu Asn Gly Ser Ser
 155 160 165
 Leu Ser Glu Asp Asp Thr Glu Arg Asp Met Gly Ser Lys Gly
 170 175 180
 Ser Trp Ala Ala Pro Ser Leu Pro Ser Gly Val Arg Glu Asp Asp
 185 190 195
 Pro Cys Ala Asn Ala Glu Gly His Asp Pro Gly Leu Pro Leu Gly
 200 205 210
 Ser Leu Thr Ala Pro Pro Ala Pro Glu Pro Ser Ala Cys Ser Glu
 215 220 225
 Pro Gly Glu Cys Pro Ala Lys Lys Arg Pro Arg Leu Asp Gly Ser
 230 235 240
 Gln Arg Pro Pro Ala Val Gln Leu Glu Pro Met Ala Ala Gly Ala
 245 250 255
 Ala Pro Ser Pro Gly Pro Gly Pro Gly Pro Arg Glu Ser Val Thr
 260 265 270
 Pro Arg Ser Thr Ala Arg Leu Gly Pro Pro Ser His Ala Ser
 275 280 285
 Ala Asp Ala Thr Arg Cys Leu Pro Cys Pro Asp Ser Gln Lys Leu
 290 295 300
 Glu Lys Glu Cys Gln Ser Ser Glu Glu Ser Met Gly Ser Asn Ser
 305 310 315
 Met Arg Ser Ile Leu Glu Glu Asp Glu Glu Asp Glu Pro Pro
 320 325 330
 Arg Val Leu Leu Tyr His Glu Pro Arg Ser Phe Glu Val Gly Met
 335 340 345
 Leu Val Trp His Lys His Lys Tyr Pro Phe Trp Pro Ala Val
 350 355 360

Val Lys Ser Val Arg Gln Arg Asp Lys Lys Ala Ser Val Leu Tyr
 365 370 375
 Ile Glu Gly His Met Asn Pro Lys Met Lys Gly Phe Thr Val Ser
 380 385 390
 Leu Lys Ser Leu Lys His Phe Asp Cys Lys Glu Lys Gln Thr Leu
 395 400 405
 Leu Asn Gln Ala Arg Glu Asp Phe Asn Gln Asp Ile Gly Trp Cys
 410 415 420
 Val Ser Leu Ile Thr Asp Tyr Arg Val Arg Leu Gly Cys Gly Ser
 425 430 435
 Phe Ala Gly Ser Phe Leu Glu Tyr Tyr Ala Ala Asp Ile Ser Tyr
 440 445 450
 Pro Val Arg Lys Ser Ile Gln Gln Asp Val Leu Gly Thr Lys Leu
 455 460 465
 Pro Gln Leu Ser Lys Gly Ser Pro Glu Glu Pro Val Val Gly Cys
 470 475 480
 Pro Leu Gly Gln Arg Gln Pro Cys Arg Lys Met Leu Pro Asp Arg
 485 490 495
 Ser Arg Ala Ala Arg Asp Arg Ala Asn Gln Lys Leu Val Glu Tyr
 500 505 510
 Ile Val Lys Ala Lys Gly Ala Glu Ser His Leu Arg Ala Ile Leu
 515 520 525
 Lys Ser Arg Lys Pro Ser Arg Trp Leu Gln Thr Phe Leu Ser Ser
 530 535 540
 Ser Gln Tyr Val Thr Cys Val Glu Thr Tyr Leu Glu Asp Glu Gly
 545 550 555
 Gln Leu Asp Leu Val Val Lys Tyr Leu Gln Gly Val Tyr Gln Glu
 560 565 570
 Val Gly Ala Lys Val Leu Gln Arg Thr Asn Gly Asp Arg Ile Arg
 575 580 585
 Phe Ile Leu Asp Val Leu Leu Pro Glu Ala Ile Ile Cys Ala Ile
 590 595 600
 Ser Ala Val Asp Glu Val Asp Tyr Lys Thr Ala Glu Glu Lys Tyr
 605 610 615
 Ile Lys Gly Pro Ser Leu Ser Tyr Arg Glu Lys Glu Ile Phe Asp
 620 625 630
 Asn Gln Leu Leu Glu Glu Arg Asn Arg Arg Arg Arg
 635 640

<210> 16
 <211> 238
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3075994CD1

<400> 16

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Leu | Leu | Leu | Leu | Val | Ala | Ile | Pro | Leu | Leu | Val | His | Ser |
| 1 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Ser | Arg | Gly | Pro | Ala | His | Tyr | Glu | Met | Leu | Gly | Arg | Cys | Arg | Met |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Val | Cys | Asp | Pro | His | Gly | Pro | Arg | Gly | Pro | Gly | Pro | Asp | Gly | Ala |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Pro | Ala | Ser | Val | Pro | Pro | Phe | Pro | Gly | Ala | Lys | Gly | Glu | Val | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Gly | Arg | Arg | Gly | Lys | Ala | Gly | Leu | Arg | Gly | Pro | Pro | Gly | Pro | Pro |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Gly | Pro | Arg | Gly | Pro | Pro | Gly | Glu | Pro | Gly | Arg | Pro | Gly | Pro | Pro |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Gly | Pro | Pro | Gly | Pro | Gly | Pro | Gly | Gly | Val | Ala | Pro | Ala | Ala | Gly |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Tyr | Val | Pro | Arg | Ile | Ala | Phe | Tyr | Ala | Gly | Leu | Arg | Arg | Pro | His |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Glu | Gly | Tyr | Glu | Val | Leu | Arg | Phe | Asp | Asp | Val | Val | Thr | Asn | Val |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 135 | | | | | | | | | | | | | | |

Gly Asn Ala Tyr Glu Ala Ala Ser Gly Lys Phe Thr Cys Pro Met
 140 145 150
 Pro Gly Val Tyr Phe Phe Ala Tyr His Val Leu Met Arg Gly Gly
 155 160 165
 Asp Gly Thr Ser Met Trp Ala Asp Leu Met Lys Asn Gly Gln Val
 170 175 180
 Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln Asn Tyr Asp Tyr
 185 190 195
 Ala Ser Asn Ser Val Ile Leu His Leu Asp Val Gly Asp Glu Val
 200 205 210
 Phe Ile Lys Leu Asp Gly Gly Lys Val His Gly Gly Asn Thr Asn
 215 220 225
 Lys Tyr Ser Thr Phe Ser Gly Phe Ile Ile Tyr Pro Asp
 230 235

<210> 17
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2378119CD1

<400> 17
Met Ala Ala Leu Gly Ser Pro Ser His Thr Phe Arg Gly Leu Leu
 1 5 10 15
Arg Glu Leu Arg Tyr Leu Ser Ala Ala Thr Gly Arg Pro Tyr Arg
 20 25 30
Asp Thr Ala Ala Tyr Arg Tyr Leu Val Lys Ala Phe Arg Ala His
 35 40 45
Arg Val Thr Ser Glu Lys Leu Cys Arg Ala Gln His Glu Leu His
 50 55 60
Phe Gln Ala Ala Thr Tyr Leu Cys Leu Leu Arg Ser Ile Arg Lys
 65 70 75
His Val Ala Leu His Gln Glu Phe His Gly Lys Gly Glu Arg Ser
 80 85 90
Val Glu Glu Ser Ala Gly Leu Val Gly Leu Lys Leu Pro His Gln
 95 100 105
Pro Gly Gly Lys Gly Trp Glu Pro
 110

<210> 18
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2987418CD1

<400> 18
Met Lys Phe Arg Arg Ile Leu Ser Leu Phe Lys Ser Ala Leu Leu
 1 5 10 15
Ser His Tyr Gly Met Ile Glu Gly Lys Met Lys Arg Asn Glu Arg
 20 25 30
Leu Thr Thr Phe Tyr Leu Asp His Tyr Ile Val Cys Ser Val Tyr
 35 40 45
Ser Phe Pro Ile Leu Phe His Thr Pro Gly Ile Leu Thr Met Gly
 50 55 60
Phe Lys Ala His Leu Glu Ala Thr Leu Arg Gln Gln Arg Thr Gln
 65 70 75
Ser Pro Leu Glu Leu Leu Leu Pro Leu Leu Leu Cys Gln Arg Ser
 80 85 90
Thr Asn Ile Val Ala Val Lys
 95

<210> 19
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4223862CD1

<400> 19
Met Val Cys Val Leu His Arg Asp Arg Thr Thr Val Ser Ala Thr
1 5 10 15
Ala Leu Arg Phe Ser Lys Leu Gly Gly Val Leu Leu Phe
20 25 30
Val Ser Ala Ala His Gly Cys Thr Asp Val Gly Asn Arg Glu Val
35 40 45
Phe Gly Gln Gly Asp Gly Ser Ala Gly Phe Pro Val Leu Ser Ser
50 55 60
Phe Pro Phe Leu Glu Val Leu Ser Phe Arg Gly Phe Glu Ser Cys
65 70 75
Asn Lys Arg Ser Ser Leu Ile Asn Phe Gly Leu Phe Pro Leu Asn
80 85 90
Val Arg His Leu Ile Leu Asn Phe Phe Leu Val Leu Leu Leu
95 100 105
Pro Gly Tyr Phe Val Pro Ser Pro Trp Leu Leu Gly Ser Cys Phe
110 115 120
Gln Tyr Ser Ala Ser Cys Phe Pro Phe Ser Trp Asp Pro Ala Leu
125 130 135
Ala His Ala Leu Tyr Leu Gly Pro Met Cys Val Asn
140 145

<210> 20
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6046406CD1

<400> 20
Met Pro Gln Arg Leu Trp Val Gly Ala Gly Leu Val Pro Thr Ile
1 5 10 15
Ala Leu Cys Cys Ser Glu Ala Arg Ala Val Cys Pro Ser Pro Gly
20 25 30
Trp Ile Pro Glu Ser Gly Met Thr Gln Ser Pro Val Pro Lys Ser
35 40 45
Ser Arg Gly His Arg His Ile Pro Val His Arg Gly Gly Lys Thr
50 55 60
His Ala Cys Pro Met Gly Gly Trp Gly Ser Asp Leu His Lys Asp
65 70 75
Arg Trp Met Phe Gly Arg Ser Arg Leu Gly Ser Gly Val Arg Ser
80 85 90
Ser Pro Pro Glu Val
95

<210> 21
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6743529CD1

<400> 21
Met Lys Phe Gln Leu Gly Leu Ser Ala Val Lys Ser Val Ser Gln

| | | | |
|---|---------------------|----|----|
| 1 | 5 | 10 | 15 |
| Ser Val Phe Cys Gly Thr Ser Thr Tyr Cys | Val Leu Asn Thr Val | | |
| 20 | 25 | 30 | |
| Pro Pro Ile Glu Asp Asp His Gly Asn Ser Asn Ser Ser His Val | | | |
| 35 | 40 | 45 | |
| Lys Ile Phe Leu Pro Lys Lys Leu Leu Glu Cys Leu Pro Lys Cys | | | |
| 50 | 55 | 60 | |
| Ser Ser Leu Pro Lys Glu Arg His Arg Trp Asn Thr Asn Glu Arg | | | |
| 65 | 70 | 75 | |
| Ser | | | |

<210> 22
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7283809CD1

| | | | |
|---|-----|-----|----|
| 1 | 5 | 10 | 15 |
| Met Met Gly Leu Leu His Leu Ala Leu Leu Ala Leu Ala Pro Leu | | | |
| 20 | 25 | 30 | |
| Gly Leu Leu Phe Ser Phe Pro Pro Gln Ala Phe Val Phe Pro Arg | | | |
| 35 | 40 | 45 | |
| Ala Pro Ser Trp Ala Leu Phe Phe Gln Leu Ile Leu Ser Ile Ser | | | |
| 50 | 55 | 60 | |
| Val Ile Phe Val Asn Pro Pro His Ile Cys Pro Ser Gly Pro Ala | | | |
| 65 | 70 | 75 | |
| Ser Pro Glu Met His Leu His Ile Ser Ser Cys Leu Leu Val Ile | | | |
| 80 | 85 | 90 | |
| Ala Pro Trp Gly Thr Leu Asn Pro Ser Cys Val Pro Leu Thr His | | | |
| 95 | 100 | 105 | |
| Pro Pro His Cys Pro His Gly Asp Arg Leu Leu His Cys Leu Ser | | | |
| 110 | 115 | 120 | |
| Ser Pro Pro Thr Phe Ser Trp Ser Tyr Ser Ala Asp Gly Phe Gly | | | |
| 125 | 130 | 135 | |
| Ser Glu Thr Ser Pro Pro Phe Leu Gln Pro Pro Arg Pro Leu Pro | | | |
| 140 | 145 | 150 | |
| Thr Cys Pro Gly | | | |

<210> 23
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7637563CD1

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Met Arg Val Pro Trp Gly Pro Pro Asp Ala Gly Leu Gly Leu Tyr | | | |
| 20 | 25 | 30 | |
| Phe Cys Gly Pro Arg Ala Leu Trp Gly Leu Gly Pro Thr Gln Leu | | | |
| 35 | 40 | 45 | |
| His Thr Ser Leu Trp Gly Gln Asp Val Val Leu Glu Met Pro Lys | | | |
| 50 | 55 | 60 | |
| Met Gly Pro Thr Gly Arg Asn Cys Ala Lys Gly Arg Leu Ala Ser | | | |
| 65 | 70 | 75 | |
| Thr Arg Arg Phe Leu Gln Leu His Thr Gln Pro Arg Asp Phe Lys | | | |
| 80 | 85 | 90 | |
| Glu His Phe Ser Gly Lys Asn Thr His Ser Lys Asn Leu Arg Phe | | | |

| | | |
|---|-----|-----|
| Leu Thr Pro Pro Val Cys Thr Trp Met Cys Asp Tyr Phe Arg Pro | | |
| 95 | 100 | 105 |
| Val Ser Leu Gln Gln Asn Ile Leu His Asp Ser Cys Pro Ala Pro | | |
| 110 | 115 | 120 |
| Arg Tyr Leu Val Leu Asp Leu Gly Gly Gly Arg Ser Cys Leu Lys | | |
| 125 | 130 | 135 |
| Thr Asn Lys Gln Thr Asn Lys Ile His Gln Lys Gln Lys Asn Arg | | |
| 140 | 145 | 150 |
| Asn Asn Arg Asn Asn Cys Gly Gly Trp Gln | | |
| 155 | 160 | |

<210> 24

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7663814CD1

<400> 24

| | | | |
|---|----|----|----|
| Met Leu Ser Pro Cys Pro Leu Gln Leu Ala Ala Pro Leu Leu Leu | | | |
| 1 | 5 | 10 | 15 |
| Cys Gln Ser Ser Leu Pro Glu Pro Ser Thr Thr Ile Gly Lys Thr | | | |
| 20 | 25 | 30 | |
| His His Pro His Met Lys Gln Leu Thr Gly Asn Asn Ser Met Tyr | | | |
| 35 | 40 | 45 | |
| His Thr Val His Ser Leu Arg Val Thr Asn Tyr Thr His Thr Ser | | | |
| 50 | 55 | 60 | |
| Pro Phe Gln Asn Asn Ala Asp Thr Ile Phe Cys Gly | | | |
| 65 | 70 | | |

<210> 25

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 8001939CD1

<400> 25.

| | | | |
|---|-----|-----|----|
| Met Glu Asn Gln Pro Val Arg Trp Arg Ala Leu Pro Gly Leu Pro | | | |
| 1 | 5 | 10 | 15 |
| Arg Pro Pro Gly Leu Pro Ala Ala Pro Trp Leu Leu Leu Gly Val | | | |
| 20 | 25 | 30 | |
| Leu Leu Leu Pro Gly Thr Leu Arg Leu Ala Gly Gly Gln Ser Val | | | |
| 35 | 40 | 45 | |
| Thr His Thr Gly Leu Pro Ile Met Ala Ser Leu Ala Asn Thr Ala | | | |
| 50 | 55 | 60 | |
| Ile Ser Phe Ser Cys Arg Ile Thr Tyr Pro Tyr Thr Pro Gln Phe | | | |
| 65 | 70 | 75 | |
| Lys Val Phe Thr Val Ser Tyr Phe His Glu Asp Leu Gln Gly Gln | | | |
| 80 | 85 | 90 | |
| Arg Ser Pro Lys Lys Pro Thr Asn Cys His Pro Gly Leu Gly Thr | | | |
| 95 | 100 | 105 | |
| Glu Asn Gln Ser His Thr Leu Asp Cys Gln Val Thr Leu Val Leu | | | |
| 110 | 115 | 120 | |
| Pro Gly Ala Ser Ala Thr Gly Thr Tyr Tyr Cys Ser Val His Trp | | | |
| 125 | 130 | 135 | |
| Pro His Ser Thr Val Arg Gly Ser Gly Thr Phe Ile Leu Val Arg | | | |
| 140 | 145 | 150 | |
| Asp Ala Gly Tyr Arg Glu Pro Pro Gln Ser Pro Gln Lys Leu Leu | | | |
| 155 | 160 | 165 | |
| Leu Phe Gly Phe Thr Gly Leu Leu Ser Val Leu Ser Val Val Gly | | | |
| 170 | 175 | 180 | |
| Thr Ala Leu Leu Leu Trp Asn Lys Lys Arg Met Arg Gly Pro Gly | | | |

| | | |
|---|---------------------|-----|
| 185 | 190 | 195 |
| Lys Asp Pro Thr Arg Lys Cys Pro Asp Pro | Arg Ser Ala Ser Ser | |
| 200 | 205 | 210 |
| Pro Lys Gln His Pro Ser Glu Ser Val Tyr | Thr Ala Leu Gln Arg | |
| 215 | 220 | 225 |
| Arg Glu Thr Glu Val Tyr Ala Cys Ile Glu | Asn Glu Asp Gly Ser | |
| 230 | 235 | 240 |
| Ser Pro Thr Ala Lys Gln Ser Pro Leu Ser | Gln Glu Arg Pro His | |
| 245 | 250 | 255 |
| Arg Phe Glu Asp Asp Gly Glu Leu Asn Leu | Val Tyr Glu Asn Leu | |
| 260 | 265 | 270 |

<210> 26
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 8191019CD1

<400> 26

| | | | |
|---|---|-----|-----|
| Met Phe His Ser Val Ala Leu Ala Leu Ser Val Cys Ile Cys Arg | | | |
| 1 | 5 | 10 | 15 |
| Val Gly Pro Asp Thr Pro Leu Ser Pro Gln Arg Gly Leu Ala Leu | | | |
| 20 | | 25 | 30 |
| Ala Arg Val Pro Ala Asn Met Gln Glu Ala Glu Asn Leu Gly Arg | | | |
| 35 | | 40 | 45 |
| Lys Phe Gln Pro Val Ala Ile His Ser His Leu Gly Gly Pro Ala | | | |
| 50 | | 55 | 60 |
| Ser Lys Gly Ser Leu Glu Ala Thr Trp Ala Arg Ala Gly Arg Gly | | | |
| 65 | | 70 | 75 |
| Cys Arg Ile Ser Arg Pro Ala Lys Val Ser Ala Thr Leu Leu Gly | | | |
| 80 | | 85 | 90 |
| Gly Pro Arg Leu Gln Val Pro Val Val Val Pro Thr Ser Trp Ser | | | |
| 95 | | 100 | 105 |
| Phe Cys Ser Ala Ser Ile Ser Pro Ser Leu Pro Val Val Leu Ala | | | |
| 110 | | 115 | 120 |
| Pro | | | |

<210> 27
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 919788CD1

<400> 27

| | | | |
|---|---|-----|-----|
| Met Arg Met Arg Arg Pro Leu Ala Gly Gly Lys Ser Trp Gly | | | |
| 1 | 5 | 10 | 15 |
| Ile Ala His Phe Tyr Lys Pro Leu Gln Arg Glu Arg Arg Ala Gly | | | |
| 20 | | 25 | 30 |
| Ala Glu Cys Gly Leu Ala Arg Gln Val Arg Ala Glu Val Thr Lys | | | |
| 35 | | 40 | 45 |
| Trp Ile Gly Val Asn Arg Arg Pro Arg Lys Arg Lys Arg Arg Glu | | | |
| 50 | | 55 | 60 |
| Lys Glu Glu Val Phe Glu Lys Leu Leu Pro Asp Gln Leu Val Leu | | | |
| 65 | | 70 | 75 |
| Leu Leu Glu His Leu Leu Glu Gln Lys Thr Leu Ser Pro Arg Thr | | | |
| 80 | | 85 | 90 |
| Leu Gln Ser Leu Gln Arg Thr Tyr His Leu Gln Asp Gln Asp Ala | | | |
| 95 | | 100 | 105 |
| Glu Val Arg His Arg Trp Cys Glu Leu Ile Val Lys His Lys Phe | | | |

| | | | |
|---------------------|---------------------|---------------------|-----|
| | 110 | 115 | 120 |
| Thr Lys Ala Tyr | Lys Ser Val Glu Arg | Phe Leu Gln Glu Asp | Gln |
| | 125 | 130 | 135 |
| Ala Met Gly Val | Tyr Leu Tyr Gly Glu | Leu Met Val Ser Glu | Asp |
| | 140 | 145 | 150 |
| Ala Arg Gln Gln | Gln Leu Ala Arg Arg | Cys Phe Glu Arg Thr | Lys |
| | 155 | 160 | 165 |
| Glu Gln Met Asp Arg | Ser Ser Ala Gln Val | Val Ala Glu Met | Leu |
| | 170 | 175 | 180 |
| Phe | | | |

<210> 28
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4758058CD1

<400> 28

| | | | |
|---|-----|-----|----|
| Met Ser Ser Leu Gln Ala Met Lys Thr Leu Ser Leu Val Leu Leu | | | |
| 1 | 5 | 10 | 15 |
| Val Ala Leu Ala Leu Ser Pro Gln Pro Gln Gly Leu Arg Cys Tyr | | | |
| 20 | 25 | 30 | |
| Arg Cys Leu Ala Val Leu Glu Gly Ala Ser Cys Ser Val Val Ser | | | |
| 35 | 40 | 45 | |
| Cys Pro Phe Leu Asp Gly Val Cys Val Ser Gln Lys Val Ser Val | | | |
| 50 | 55 | 60 | |
| Phe Gly Ser Glu Ser Trp Gly Ala Arg Ala Glu Gly Arg Leu Ser | | | |
| 65 | 70 | 75 | |
| Ala Val Val Asp Ser Gln Ile Ser Cys Cys Lys Gly Asp Leu Cys | | | |
| 80 | 85 | 90 | |
| Asn Ala Val Val Leu Ala Ala Gly Ser Pro Trp Ala Leu Cys Val | | | |
| 95 | 100 | 105 | |
| Gln Leu Leu Leu Ser Leu Gly Ser Val Phe Leu Trp Ala Leu Leu | | | |
| 110 | 115 | 120 | |

<210> 29
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7499835CD1

<400> 29

| | | | |
|---|-----|-----|----|
| Met Leu Pro Pro Met Ala Leu Pro Ser Val Ser Trp Met Leu Leu | | | |
| 1 | 5 | 10 | 15 |
| Ser Cys Leu Ile Leu Leu Cys Gln Val Gln Gly Glu Glu Thr Gln | | | |
| 20 | 25 | 30 | |
| Lys Glu Leu Pro Ser Pro Arg Ile Ser Cys Pro Lys Gly Ser Lys | | | |
| 35 | 40 | 45 | |
| Ala Tyr Gly Ser Pro Cys Tyr Ala Leu Phe Leu Ser Pro Lys Ser | | | |
| 50 | 55 | 60 | |
| Trp Met Asp Ala Asp Gly Ser Glu Pro Asp Gly Asp Gly Trp Glu | | | |
| 65 | 70 | 75 | |
| Trp Ser Ser Thr Asp Val Met Asn Tyr Phe Ala Trp Glu Lys Asn | | | |
| 80 | 85 | 90 | |
| Pro Ser Thr Ile Leu Asn Pro Gly His Cys Gly Ser Leu Ser Arg | | | |
| 95 | 100 | 105 | |
| Ser Thr Gly Phe Leu Lys Trp Lys Asp Tyr Asn Cys Asp Ala Lys | | | |
| 110 | 115 | 120 | |
| Leu Pro Tyr Val Cys Lys Phe Lys Asp | | | |

125

<210> 30
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2484647CD1

<400> 30
Met Glu Arg Thr Leu Ile Pro Ala Pro Thr Leu Ala Ser Leu Cys
1 5 10 15
Gln Ala Gln Ala Glu Pro Arg Cys Cys Leu Cys Leu Ser Ala Val
20 25 30
Ala Asp Glu Ala Cys Ala Glu His Phe Gly Lys Ser Gly Glu Leu
35 40 45
Lys Ala Gln Ala Leu Gly Pro Ile Thr Ala Met Gln Ala Gln Arg
50 55 60
Trp Gln Ala Gly Ala His Arg Trp Ile Cys Gln Cys Gln Ser Gln
65 70 75
Ser Gly Pro Gln Lys Cys Ser Gly Val Asp Ser His Cys Leu Thr
80 85 90
Phe Pro Ser Met Ala Cys Met Arg Asn Gly Arg
95 100

<210> 31
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2587034CD1

<400> 31
Met Gly Phe Phe Asn Tyr Leu Thr Tyr Phe Leu Ala Ala Gly Ala
1 5 10 15
Val Thr Leu Gly Ile Gly Phe Phe Ala Leu Ala Ser Ala Leu Trp
20 25 30
Phe Leu Ile Cys Lys Arg Arg Glu Ile Phe Gln Asn Ser Lys Phe
35 40 45
Lys Ala Ile Asp Glu Arg Cys Arg Gln Arg Pro Ser Met Ala Lys
50 55 60
Ile Lys Ser His Ser Gln Cys Val Phe Ile Ser Arg Asn Phe His
65 70 75
Thr Gly Arg Phe Gln Leu Gln Phe
80

<210> 32
<211> 172
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2702991CD1

<400> 32
Met Arg Leu Leu Gly Pro Arg Phe Gln Gly Gly Trp Gly Thr His
1 5 10 15
Arg Leu Met Pro Arg Gly Val Val Gly Ala Ala Ala Ser Gln Cys
20 25 30
Ala Val Val Arg Ala Gly Lys Ala Trp Gly Leu Gly Ser Arg Pro
35 40 45
Leu Gly Lys Val Glu Met Glu Asp Pro Asp Ile Leu Thr Ser Pro

| | | | |
|---------------------|---|----|-----|
| | 50 | 55 | 60 |
| Gly Lys Leu Pro His | Glu Pro Ala Pro Pro Val Gln Val Cys Glu | | |
| 65 | 70 | | 75 |
| Leu His Phe Ser Arg | Pro Arg Pro Ala Gln Glu Ala Ser Ala Phe | | |
| 80 | 85 | | 90 |
| Pro Phe Leu Val Pro | Asp Ser Val Ser Gln Met Ala Arg Gly Gly | | |
| 95 | 100 | | 105 |
| Pro Gly Lys Ala Trp | Gly Gly Val Leu Glu Glu Gly Pro Gly | | |
| 110 | 115 | | 120 |
| Glu Gly Ser Thr Gln | Asn Trp Pro Cys Gly Phe Leu Gln Pro Gly | | |
| 125 | 130 | | 135 |
| Leu Leu Gly Trp Arg | Gly Asn Ser Lys Glu Pro Arg Val Leu Pro | | |
| 140 | 145 | | 150 |
| Phe Asn Asn Gln Cys | Gly Ala Gly Leu Trp Arg Arg Pro Ala Gly | | |
| 155 | 160 | | 165 |
| Arg Gln Arg Glu Leu | Gly Thr | | |
| | 170 | | |

<210> 33

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2744736CD1

<400> 33

| | | | |
|---------------------|---|----|-----|
| Met Cys Val Gly Val | Cys Gly Ala Tyr Thr Thr Cys Leu Leu Gln | | |
| 1 | 5 | 10 | 15 |
| Trp Cys Val Ser Glu | Val Pro Pro Met Arg Val Pro Pro Leu Ser | | |
| 20 | 25 | | 30 |
| Leu Leu Trp Val Gly | Ser Gln Leu Pro Ala Ala Arg Pro Pro Leu | | |
| 35 | 40 | | 45 |
| Gly Pro Cys Gly Cys | Val Gln Ala Ser Ala Ala Ala Pro His Arg | | |
| 50 | 55 | | 60 |
| Leu Pro Gly Pro Phe | Leu Cys Thr Thr Ala Ala Leu Arg Pro | | |
| 65 | 70 | | 75 |
| Val Gln Val Trp Ala | Gly Gln Pro Arg Gly Gly Asn Pro Ala Gln | | |
| 80 | 85 | | 90 |
| Glu Gly Cys Gly His | Val Asp Gly Ser Ser Leu Arg Trp Cys Gly | | |
| 95 | 100 | | 105 |
| Leu Gly Pro Gly Ser | His Gly Gly Lys Lys Trp Pro Pro Pro Leu | | |
| 110 | 115 | | 120 |
| Pro Pro Arg Trp Pro | Arg Gly Trp Pro Pro Ser Gln Ala Val Ala | | |
| 125 | 130 | | 135 |
| Gln Val Arg Leu Pro | Arg Glu Asp Arg Arg Cys Ser Gly Pro Ser | | |
| 140 | 145 | | 150 |
| Leu Ser Leu Thr Ala | Ala Ala Ser Trp Leu Thr Thr Gly Ser Gly Val | | |
| 155 | 160 | | 165 |
| Ser Cys Tyr | | | |

<210> 34

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2915475CD1

<400> 34

| | | | |
|---------------------|---|----|----|
| Met Leu Pro Leu Tyr | Val Pro Leu Leu Leu Thr Leu Leu Gly Val | | |
| 1 | 5 | 10 | 15 |
| Ser Asn Ala Gln Glu | Leu Thr Pro Val Ser Gly Leu Cys Cys Phe | | |
| 20 | 25 | | 30 |

Ser Phe Phe Val Ser Gly Thr Gly Cys Asp Ser Val Thr Gln Ala
 35 40 45
 Gly Val His Leu Leu Phe Leu Val Ser Val Met Phe Phe Leu
 50 55 60
 Leu Ser Leu Phe Leu Ile Leu Phe Leu Leu Phe Thr Tyr Leu Leu
 65 70 75
 Glu Thr Gly Ser His Ser Val Thr
 80

<210> 35
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3040427CD1

<400> 35
Met Val Gln His Cys Pro Pro Arg Thr Glu Ala Ala Pro Cys Glu
 1 5 10 15
Gly Cys Leu Lys Ile Leu Met Thr Met Arg Ser Leu Leu Arg Thr
 20 25 30
Pro Phe Leu Cys Gly Leu Leu Trp Ala Phe Cys Ala Pro Gly Ala
 35 40 45
Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser Gln Pro Gly Ser Met
 50 55 60
Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu His Ile Met Glu
 65 70 75
His Leu Glu Gly Val Ile Asn Lys Pro Glu Ala Glu Met Ser Pro
 80 85 90
Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr Asp Gly
 95 100 105
Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr His
 110 115 120
Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met Ser Glu
 125 130 135
Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp Asp
 140 145 150
Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser
 155 160 165
Leu Gln

<210> 36
<211> 195
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7499722CD1

<400> 36
Met Gly Phe Phe Asn Tyr Leu Thr Tyr Phe Leu Ala Ala Gly Ala
 1 5 10 15
Val Thr Leu Gly Ile Gly Phe Phe Ala Leu Ala Ser Ala Leu Trp
 20 25 30
Phe Leu Ile Cys Lys Arg Arg Glu Ile Phe Gln Asn Ser Lys Phe
 35 40 45
Lys Ala Ile Asp Glu Arg Cys Arg Gln Arg Pro Ser Met Ala Lys
 50 55 60
Ile Lys Ser His Ser Gln Cys Val Phe Ile Ser Arg Asn Phe His
 65 70 75
Thr Gly Arg Phe Gln Leu Gln Glu Glu Gln Arg Lys Lys Glu Ala
 80 85 90
Ala His Ile Lys Ala Ile Lys Asp His Ser Lys Asp Glu Pro Gln

| | | | |
|---|-----|-----|-----|
| | 95. | 100 | 105 |
| Leu Ala Thr Lys Asn Ile Ile Cys Asp Pro Ser Glu Thr Ser Ser | | | |
| 110 | 115 | 120 | |
| Thr Thr Asn Arg Ser Ser Val Thr Leu Ser Leu Ser Thr Leu Pro | | | |
| 125 | 130 | 135 | |
| Ser Asp Ser Tyr Tyr Ser Gln Ser Ile Glu Ala Ala Asp Asp Trp | | | |
| 140 | 145 | 150 | |
| Phe Ser Asp Asp Ser Leu Val Lys Arg Asn Ser Pro Met Pro Ser | | | |
| 155 | 160 | 165 | |
| Leu Gly Glu Pro Leu Met Glu Lys Val Phe Ser Tyr Leu Ser Thr | | | |
| 170 | 175 | 180 | |
| Ile Ser Leu Glu Glu Gly Thr Glu Ser Val Leu Asn Asp Thr Leu | | | |
| 185 | 190 | 195 | |

<210> 37
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6776909CD1

<400> 37
Met Val Pro Lys Pro Arg Cys Val Leu Gly Trp Thr Pro Thr Pro
1 5 10 15
Leu Asn Leu Val Leu Trp Pro Gly Arg Ala Ser Gly His Ala Pro
20 25 30
Cys Ser Cys Pro Trp Leu Pro Ala Ala Trp Arg Arg Gly Ala Val
35 40 45
Lys Gln Leu Phe His Ser Ala Gly Arg Gln Ala Thr Pro Gly Leu
50 55 60
Val Ile Pro Val Pro His Cys Ser Trp Asn Ser Asp Ala Asp Leu
65 70 75
Thr Ala Ala Gly Arg Arg Gly Val Ser Gly His Arg Lys Asp
80 85

<210> 38
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7280438CD1

<400> 38
Met Arg Ser Val Ala Leu Pro Ala Val Ala Gly Ala Gly Val Gly
1 5 10 15
Ala Glu Gly Ala Gly Lys Ala Ala Val Pro Ala Phe Pro Pro Ser
20 25 30
Thr Phe Ser Arg Ser Gly Pro Ala Pro Gly Pro Arg Pro Gln Leu
35 40 45
Pro Gly Gly Val Gln Ser Ser Gln Asp Cys Pro Ser Arg Val Val
50 55 60
Pro Val Val Asp Pro Pro Pro Arg Pro Arg Gly Gly Trp Pro
65 70 75
Val Trp Trp Trp Pro Leu Asn Pro Gly Trp Arg Gly Leu Arg Arg
80 85 90
Trp Gln Trp Gly Asp His Lys Gly Phe Arg Gly Val Ser Trp Gly
95 100 105
Tyr Ser Val Cys Gly Trp Ser Leu Ser Ser Cys Arg Trp Val Glu
110 115 120
Arg Thr Glu Glu Gly Pro Gln Gly Ala Glu His Pro Pro Ala Pro
125 130 135
Ser

<210> 39
<211> 420
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7499809CD1

<400> 39

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Trp | Leu | Pro | Leu | Val | Leu | Leu | Leu | Ala | Val | Leu | Leu | Leu | Ala |
| 1 | | 5 | | | | 10 | | | | | 15 | | | |
| Val | Leu | Cys | Lys | Val | Tyr | Leu | Gly | Leu | Phe | Ser | Gly | Ser | Ser | Pro |
| | | | | 20 | | | | 25 | | | | | 30 | |
| Asn | Pro | Phe | Ser | Glu | Asp | Val | Lys | Arg | Pro | Pro | Ala | Pro | Leu | Val |
| | | | | 35 | | | | 40 | | | | | 45 | |
| Thr | Asp | Lys | Glu | Ala | Arg | Lys | Lys | Val | Leu | Lys | Gln | Gly | Ile | His |
| | | | | 50 | | | | 55 | | | | | 60 | |
| Tyr | Ile | Gly | Arg | Met | Glu | Glu | Gly | Ser | Ile | Gly | Arg | Phe | Ile | Leu |
| | | | | 65 | | | | 70 | | | | | 75 | |
| Asp | Gln | Ile | Thr | Glu | Gly | Gln | Leu | Asp | Trp | Ala | Pro | Leu | Ser | Ser |
| | | | | 80 | | | | 85 | | | | | 90 | |
| Pro | Phe | Asp | Ile | Met | Val | Leu | Glu | Gly | Pro | Asn | Gly | Arg | Lys | Glu |
| | | | | 95 | | | | 100 | | | | | 105 | |
| Tyr | Pro | Met | Tyr | Ser | Gly | Glu | Lys | Ala | Tyr | Ile | Gln | Gly | Leu | Lys |
| | | | | 110 | | | | 115 | | | | | 120 | |
| Glu | Lys | Phe | Pro | Gln | Glu | Glu | Ala | Ile | Ile | Asp | Lys | Tyr | Ile | Lys |
| | | | | 125 | | | | 130 | | | | | 135 | |
| Leu | Val | Lys | Val | Val | Ser | Ser | Gly | Ala | Pro | His | Ala | Ile | Leu | Leu |
| | | | | 140 | | | | 145 | | | | | 150 | |
| Lys | Phe | Leu | Pro | Leu | Pro | Val | Val | Gln | Leu | Leu | Asp | Arg | Cys | Gly |
| | | | | 155 | | | | 160 | | | | | 165 | |
| Leu | Leu | Thr | Arg | Phe | Ser | Pro | Phe | Leu | Gln | Ala | Ser | Thr | Gln | Ser |
| | | | | 170 | | | | 175 | | | | | 180 | |
| Leu | Ala | Glu | Val | Leu | Gln | Gln | Leu | Gly | Ala | Ser | Ser | Glu | Leu | Gln |
| | | | | 185 | | | | 190 | | | | | 195 | |
| Ala | Val | Leu | Ser | Tyr | Ile | Phe | Pro | Thr | Tyr | Gly | Val | Thr | Pro | Asn |
| | | | | 200 | | | | 205 | | | | | 210 | |
| His | Ser | Ala | Phe | Ser | Met | His | Ala | Leu | Leu | Val | Asn | His | Tyr | Met |
| | | | | 215 | | | | 220 | | | | | 225 | |
| Lys | Gly | Gly | Phe | Tyr | Pro | Arg | Gly | Gly | Ser | Ser | Glu | Ile | Ala | Phe |
| | | | | 230 | | | | 235 | | | | | 240 | |
| His | Thr | Ile | Pro | Val | Ile | Gln | Arg | Ala | Gly | Gly | Ala | Val | Leu | Thr |
| | | | | 245 | | | | 250 | | | | | 255 | |
| Lys | Ala | Thr | Val | Gln | Ser | Val | Leu | Leu | Asp | Ser | Ala | Gly | Lys | Ala |
| | | | | 260 | | | | 265 | | | | | 270 | |
| Cys | Gly | Val | Ser | Val | Lys | Lys | Gly | His | Glu | Leu | Val | Asn | Ile | Tyr |
| | | | | 275 | | | | 280 | | | | | 285 | |
| Cys | Pro | Ile | Val | Val | Ser | Asn | Ala | Gly | Leu | Phe | Asn | Thr | Tyr | Glu |
| | | | | 290 | | | | 295 | | | | | 300 | |
| His | Leu | Leu | Pro | Gly | Asn | Ala | Arg | Cys | Leu | Pro | Gly | Val | Lys | Gln |
| | | | | 305 | | | | 310 | | | | | 315 | |
| Gln | Leu | Gly | Thr | Val | Arg | Pro | Gly | Leu | Gly | Met | Thr | Ser | Val | Phe |
| | | | | 320 | | | | 325 | | | | | 330 | |
| Ile | Cys | Leu | Arg | Gly | Thr | Lys | Glu | Asp | Leu | His | Leu | Pro | Ser | Thr |
| | | | | 335 | | | | 340 | | | | | 345 | |
| Asn | Tyr | Tyr | Val | Tyr | Tyr | Asp | Thr | Asp | Met | Asp | Gln | Ala | Met | Glu |
| | | | | 350 | | | | 355 | | | | | 360 | |
| Arg | Tyr | Val | Ser | Met | Pro | Arg | Glu | Glu | Ala | Ala | Glu | His | Ile | Pro |
| | | | | 365 | | | | 370 | | | | | 375 | |
| Leu | Leu | Phe | Phe | Ala | Phe | Pro | Ser | Ala | Lys | Asp | Pro | Thr | Trp | Glu |
| | | | | 380 | | | | 385 | | | | | 390 | |
| Asp | Arg | Phe | Pro | Gly | Gly | Glu | Cys | Asp | Cys | Arg | Ile | Pro | Thr | His |
| | | | | 395 | | | | 400 | | | | | 405 | |
| Gln | Pro | Val | Leu | Ser | Gly | Cys | Ser | Pro | Arg | Cys | Leu | Leu | Arg | Gly |

410

415

420

<210> 40
<211> 667
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7499921CD1

<400> 40
Met Asp Pro Ser Ala Asp Thr Trp Asp Leu Phe Ser Pro Leu Ile
1 5 10 15
Ser Leu Trp Ile Asn Arg Phe Tyr Ile Tyr Leu Gly Phe Ala Val
20 25 30
Ser Ile Ser Leu Trp Ile Cys Val Gln Ile Val Ile Lys Thr Gln
35 40 45
Gly Lys Asn Leu Gln Glu Lys Ser Val Pro Lys Ala Ala Gln Asp
50 55 60
Leu Met Thr Asn Gly Tyr Val Ser Leu Gln Glu Lys Asp Ile Phe
65 70 75
Val Ser Gly Val Lys Ile Phe Tyr Gly Ser Gln Thr Gly Thr Ala
80 85 90
Lys Gly Phe Ala Thr Val Leu Ala Glu Ala Val Thr Ser Leu Asp
95 100 105
Leu Pro Val Ala Ile Ile Asn Leu Lys Glu Tyr Asp Pro Asp Asp
110 115 120
His Leu Ile Glu Glu Val Gly Lys Asn Val Asp Lys Trp Leu Trp
125 130 135
Met Leu Gly Ala His Arg Val Met Ser Arg Gly Glu Gly Asp Cys
140 145 150
Asp Val Val Lys Ser Lys His Gly Ser Ile Glu Ala Asp Phe Arg
155 160 165
Ala Trp Lys Thr Lys Phe Ile Ser Gln Leu Gln Ala Leu Gln Lys
170 175 180
Gly Glu Arg Lys Lys Ser Cys Gly Gly His Cys Lys Lys Gly Lys
185 190 195
Cys Glu Ser His Gln His Gly Ser Glu Glu Arg Glu Glu Gly Ser
200 205 210
His Glu Gln Asp Glu Leu His His Arg Asp Thr Glu Glu Glu
215 220 225
Pro Phe Glu Ser Ser Ser Glu Glu Glu Phe Gly Gly Glu Asp His
230 235 240
Gln Ser Leu Asn Ser Ile Val Asp Val Glu Asp Leu Gly Lys Ile
245 250 255
Met Asp His Val Lys Lys Glu Lys Arg Glu Lys Glu Gln Gln Glu
260 265 270
Glu Lys Ser Gly Leu Phe Arg Asn Met Gly Arg Asn Glu Asp Gly
275 280 285
Glu Arg Arg Ala Met Ile Thr Pro Ala Leu Arg Glu Ala Leu Thr
290 295 300
Lys Gln Gly Tyr Gln Leu Ile Gly Ser His Ser Gly Val Lys Leu
305 310 315
Cys Arg Trp Thr Lys Ser Met Leu Arg Gly Arg Gly Gly Cys Tyr
320 325 330
Lys His Thr Phe Tyr Gly Ile Glu Ser His Arg Cys Met Glu Thr
335 340 345
Thr Pro Ser Leu Ala Cys Ala Asn Lys Cys Val Phe Cys Trp Arg
350 355 360
His His Thr Asn Pro Val Gly Thr Glu Trp Arg Trp Lys Met Asp
365 370 375
Gln Pro Glu Met Ile Leu Lys Glu Ala Ile Glu Asn His Gln Asn
380 385 390
Met Ile Lys Gln Phe Lys Gly Val Pro Gly Val Lys Ala Glu Arg
395 400 405

Phe Glu Glu Gly Met Thr Val Lys His Cys Ala Leu Ser Leu Val
 410 415 420
 Gly Glu Pro Ile Met Tyr Pro Glu Ile Asn Arg Phe Leu Lys Leu
 425 430 435
 Leu His Gln Cys Lys Ile Ser Ser Phe Leu Val Thr Asn Ala Gln
 440 445 450
 Phe Pro Ala Glu Ile Arg Asn Leu Glu Pro Val Thr Gln Leu Tyr
 455 460 465
 Val Ser Val Asp Ala Ser Thr Lys Asp Ser Leu Lys Lys Ile Asp
 470 475 480
 Arg Pro Leu Phe Lys Asp Phe Trp Gln Arg Phe Leu Asp Ser Leu
 485 490 495
 Lys Ala Leu Ala Val Lys Gln Gln Arg Thr Val Tyr Arg Leu Thr
 500 505 510
 Leu Val Lys Ala Trp Asn Val Asp Glu Leu Gln Ala Tyr Ala Gln
 515 520 525
 Leu Val Ser Leu Gly Asn Pro Asp Phe Ile Glu Val Lys Gly Val
 530 535 540
 Thr Tyr Cys Gly Glu Ser Ser Ala Ser Ser Leu Thr Met Ala His
 545 550 555
 Val Pro Trp His Glu Glu Val Val Gln Phe Val His Glu Leu Val
 560 565 570
 Asp Leu Ile Pro Glu Tyr Glu Ile Ala Cys Glu His Glu His Ser
 575 580 585
 Asn Cys Leu Leu Ile Ala His Arg Lys Phe Lys Ile Gly Gly Glu
 590 595 600
 Trp Trp Thr Trp Ile Asp Tyr Asn Arg Phe Gln Glu Leu Ile Gln
 605 610 615
 Glu Tyr Glu Asp Ser Gly Gly Ser Lys Thr Phe Ser Ala Lys Asp
 620 625 630
 Tyr Met Ala Arg Thr Pro His Trp Ala Leu Phe Gly Ala Ser Glu
 635 640 645
 Arg Gly Phe Asp Pro Lys Asp Thr Arg His Gln Arg Lys Asn Lys
 650 655 660
 Ser Lys Ala Ile Ser Gly Cys
 665

<210> 41
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2705858CD1

<400> 41
Met Ala Leu Phe Ser Ser Phe Phe Thr Leu Ser Val Leu His Leu
 1 5 10 15
Cys Thr Ser Gln Thr Ile Met Ala Gln Arg Gln Val Met Ser Pro
 20 25 30
Pro Thr Leu Trp Leu His Ser Cys Asp Tyr Val Met His Gly Ile
 35 40 45
Val Arg Leu Cys Ser Asn Pro Thr Val Ser Tyr Cys Ala Gly Cys
 50 55 60
Val Pro Gln Pro Ile Leu Asp Cys Ser Thr Ala Ile Val Leu Thr
 65 70 75
Ile Thr Tyr Cys Lys Asp Ser Met
 80

<210> 42
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 3069892CD1

<400> 42

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Thr | Gly | Trp | Ser | Ser | Asn | Lys | Gly | Phe | Pro | Cys | Ile | Leu |
| 1 | | | 5 | | | | 10 | | | | | 15 | | |
| Cys | Leu | Pro | Ala | Met | Gly | Ala | Gln | Ala | Gln | Val | Leu | Pro | Pro | Leu |
| | | | | 20 | | | | 25 | | | | 30 | | |
| Tyr | Cys | Tyr | Trp | Phe | Val | Thr | Ile | Leu | Leu | Ala | Arg | Met | Val | Val |
| | | | | 35 | | | | 40 | | | 45 | | | |
| Ser | Ser | Arg | Glu | Glu | Ala | Thr | Glu | Phe | Pro | Thr | Arg | Glu | Thr | Gly |
| | | | 50 | | | | 55 | | | 60 | | | | |
| Leu | Ser | Arg | His | Asp | Leu | His | Thr | Leu | Ala | Gln | Thr | Pro | Glu | Asp |
| | | | 65 | | | | 70 | | | 75 | | | | |
| Thr | Asp | Leu | Gly | Pro | | | | | | | | | | |
| | | | 80 | | | | | | | | | | | |

<210> 43

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3069586CD1

<400> 43

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Leu | Ile | Gln | Glu | Met | Ala | Leu | Lys | Ile | Asp | Gln | Gly | Phe |
| 1 | | | | 5 | | | 10 | | | | 15 | | | |
| Leu | Gly | Ala | Ile | Ile | Ala | Leu | Phe | Thr | Pro | Thr | Thr | Asp | Pro | Glu |
| | | | | 20 | | | | 25 | | | 30 | | | |
| Ala | Glu | Arg | Arg | Arg | Thr | Lys | Leu | Ile | Gln | Gln | Asp | Ile | Asp | Ala |
| | | | | 35 | | | | 40 | | | 45 | | | |
| Leu | Asn | Ala | Glu | Leu | Met | Glu | Thr | Ser | Met | Thr | Asp | Met | Ser | Ile |
| | | | | 50 | | | | 55 | | | 60 | | | |
| Leu | Ser | Phe | Glu | His | Phe | His | Ile | Ser | Pro | Val | Lys | Leu | His | |
| | | | 65 | | | | 70 | | | 75 | | | | |
| Leu | Ser | Leu | Ser | Leu | Gly | Ser | Gly | Gly | Glu | Ser | Asp | Lys | Glu | |
| | | | 80 | | | | 85 | | | 90 | | | | |
| Lys | Gln | Glu | Met | Phe | Ala | Val | His | Ser | Val | Asn | Leu | Leu | Leu | Lys |
| | | | 95 | | | | 100 | | | 105 | | | | |
| Ser | Ile | Gly | Ala | Thr | Leu | Thr | Asp | Val | Asp | Asp | Leu | Ile | Phe | Lys |
| | | | 110 | | | | 115 | | | | 120 | | | |
| Leu | Ala | Tyr | Tyr | Glu | Ile | Arg | Tyr | Gln | Phe | Tyr | Lys | Arg | Asp | Gln |
| | | | 125 | | | | 130 | | | 135 | | | | |
| Leu | Ile | Trp | Ser | Val | Val | Arg | His | Tyr | Ser | Glu | Gln | Phe | Leu | Lys |
| | | | 140 | | | | 145 | | | 150 | | | | |
| Gln | Met | Tyr | Val | Leu | Val | Leu | Gly | Leu | Asp | Val | Leu | Gly | Asn | Pro |
| | | | 155 | | | | 160 | | | 165 | | | | |
| Phe | Gly | Leu | Ile | Arg | Gly | Leu | Ser | Glu | Gly | Val | Glu | Ala | Leu | Phe |
| | | | 170 | | | | 175 | | | 180 | | | | |
| Tyr | Glu | Pro | Phe | Gln | Gly | Ala | Val | Gln | Gly | Pro | Glu | Glu | Phe | Ala |
| | | | 185 | | | | 190 | | | 195 | | | | |
| Glu | Gly | Leu | Val | Ile | Gly | Val | Arg | Ser | Leu | Phe | Gly | His | Thr | Val |
| | | | 200 | | | | 205 | | | 210 | | | | |
| Gly | Gly | Ala | Ala | Gly | Val | Val | Ser | Arg | Ile | Thr | Gly | Ser | Val | Gly |
| | | | 215 | | | | 220 | | | 225 | | | | |
| Lys | Gly | Leu | Ala | Ala | Ile | Thr | Met | Asp | Lys | Glu | Tyr | Gln | Gln | Lys |
| | | | 230 | | | | 235 | | | 240 | | | | |
| Arg | Arg | Glu | Glu | Leu | Ser | Arg | Gln | Pro | Arg | Asp | Phe | Gly | Asp | Ser |
| | | | 245 | | | | 250 | | | 255 | | | | |
| Leu | Ala | Arg | Gly | Gly | Lys | Gly | Phe | Leu | Arg | Gly | Val | Val | Gly | |
| | | | 260 | | | | 265 | | | 270 | | | | |
| Val | Thr | Gly | Ile | Ile | Thr | Lys | Pro | Val | Glu | Gly | Ala | Lys | Glu | |
| | | | 275 | | | | 280 | | | 285 | | | | |
| Gly | Ala | Ala | Gly | Phe | Phe | Lys | Gly | Ile | Gly | Lys | Gly | Leu | Val | Gly |
| | | | 290 | | | | 295 | | | 300 | | | | |
| Ala | Val | Ala | Arg | Pro | Thr | Gly | Gly | Ile | Asp | Met | Ala | Ser | Ser | |

| | | | |
|---|-----|-----|-----|
| | 305 | 310 | 315 |
| Thr Phe Gln Gly Ile Gln Arg Ala Ala Glu Ser Thr Glu Glu Val | | | |
| | 320 | 325 | 330 |
| Ser Ser Leu Arg Pro Pro Arg Leu Ile His Glu Asp Gly Ile Ile | | | |
| | 335 | 340 | 345 |
| Arg Pro Tyr Asp Arg Gln Glu Ser Glu Gly Ser Asp Leu Leu Glu | | | |
| | 350 | 355 | 360 |
| Gln Glu Leu Glu Ile Gln Glu | | | |
| | 365 | | |

<210> 44
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7500104CD1

<400> 44

| | | | |
|---|-----|-----|-----|
| Met Leu Leu Ile Leu Leu Ser Val Ala Leu Leu Ala Phe Ser Ser | | | |
| 1 | 5 | 10 | 15 |
| Ala Gln Asp Leu Asn Glu Asp Gly Gly Asp Ser Glu Gln Phe Ile | | | |
| | 20 | 25 | 30 |
| Asp Glu Glu Arg Gln Gly Pro Pro Leu Gly Gly Gln Gln Ser Gln | | | |
| | 35 | 40 | 45 |
| Pro Ser Ala Gly Asp Gly Asn Gln Asp Asp Gly Pro Gln Gln Gly | | | |
| | 50 | 55 | 60 |
| Pro Pro Gln Gln Gly Gly Gln Gln Gln Gln Gly Pro Pro Pro Pro | | | |
| | 65 | 70 | 75 |
| Gln Gly Lys Pro Gln Gly Pro Pro Gln Gln Gly Gly His Pro Pro | | | |
| | 80 | 85 | 90 |
| Pro Pro Gln Gly Arg Pro Gln Gly Pro Pro Gln Gln Gly His | | | |
| | 95 | 100 | 105 |
| Pro Arg Pro Pro Arg Gly Arg Pro Gln Gly Pro Pro Gln Gln Gly | | | |
| | 110 | 115 | 120 |
| Gly His Gln Gln Gly Pro Pro Pro Pro Pro Gly Lys Pro Gln | | | |
| | 125 | 130 | 135 |
| Gly Pro Pro Pro Gln Gly Gly Arg Pro Gln Gly Pro Pro Gln Gly | | | |
| | 140 | 145 | 150 |
| Gln Ser Pro Gln | | | |

<210> 45
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7500203CD1

<400> 45

| | | | |
|---|----|-----|-----|
| Met Leu Pro Pro Met Ala Leu Pro Ser Val Ser Trp Met Leu Leu | | | |
| 1 | 5 | 10 | 15 |
| Ser Cys Leu Ile Leu Leu Cys Gln Val Gln Gly Glu Glu Thr Gln | | | |
| | 20 | 25 | 30 |
| Lys Glu Leu Pro Ser Pro Arg Ile Ser Cys Pro Lys Gly Ser Lys | | | |
| | 35 | 40 | 45 |
| Ala Tyr Gly Ser Pro Cys Tyr Ala Leu Phe Leu Ser Pro Lys Ser | | | |
| | 50 | 55 | 60 |
| Trp Met Asp Ala Asp Gly Ser Glu Pro Asp Gly Asp Gly Trp Glu | | | |
| | 65 | 70 | 75 |
| Trp Ser Ser Thr Asp Val Met Asn Tyr Phe Ala Trp Glu Lys Asn | | | |
| | 80 | 85 | 90 |
| Pro Ser Thr Ile Leu Asn Pro Gly His Cys Gly Ser Leu Ser Arg | | | |
| | 95 | 100 | 105 |

Ser Thr Gly Phe Leu Lys Trp Lys Asp Tyr Asn Cys Asp Ala Lys
 110 115 120
 Leu Pro Tyr Val Cys Lys Phe Lys Asp
 125

<210> 46
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4843802CD1

<400> 46
Met Lys Gly Ala Arg Asp Ala Ser Pro Ser Leu Ser Trp Ala Ala
 1 5 10 15
Ala Ala Val Gly Ser Ala Leu Gly Arg Ala Gly Glu Gly Thr Ser
 20 25 30
Met Val Gly Cys Lys Lys Pro Leu Gly Gln Gln Ile Pro Arg Pro
 35 40 45
Phe Pro Thr Cys Ser Thr Ser Trp Pro Leu Gly Cys Phe Leu His
 50 55 60
Leu Glu His Ser Ser Arg Lys Pro Arg Gly Ser Leu Ser Asp
 65 70 75
Phe Leu Gln Glu Val Ser Leu Leu Thr Gly Pro Ser Leu Thr Thr
 80 85 90
Gln Asp Lys Ser Val His Ala Leu Ser Leu Pro Pro Pro Thr Leu
 95 100 105
Pro Arg Pro Ser Asp Leu Pro Ala His Cys Trp
 110 115

<210> 47
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5877522CD1

<400> 47
Met Arg Leu Phe Ile Leu Phe Ser Pro Gly Leu Ala Trp Thr His
 1 5 10 15
Arg Gln Gln Gln His
 20 25 30
His His His His His His His Gln Trp Leu Ser Pro His
 35 40 45
Cys Ala Ser Trp Glu Pro Gly Ser Ala Ser Arg Leu His Gly His
 50 55 60
Tyr Arg Arg Glu Gln Ser His Leu Ser Gly Ser Cys Gly Lys Arg
 65 70 75
Pro Arg Val Asp Leu Thr Gln Val Cys
 80

<210> 48
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 617491CD1

<400> 48
Met Ala Asn Ala Pro Pro Pro Cys Cys Ser Ser Ser Cys Ser Cys
 1 5 10 15

Phe Leu Leu Pro Ser Leu Leu Ala Trp Asn Ser His Ser Asp Ser
 20 25 30
 Pro Asn His Asp Thr Gln Asn Ala Thr Ser Lys Lys Asn Ile Arg
 35 40 45
 Val Gly Ala Ser Ala Ser Ser Glu Leu Thr Ser Leu Leu Cys Pro
 50 55 60
 Leu Leu Thr Arg Pro Pro Phe Ser Phe Gly Cys Asn Ser Phe Gln
 65 70 75
 Pro Pro His Ser Phe Asp Arg Arg
 80

<210> 49
 <211> 133
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6289901CD1

<400> 49
 Met Met Cys Tyr Ala Phe Trp Pro Ala Asp Val Gln Val Asp Ser
 1 5 10 15
 Asp Leu Arg His Ile Gln Lys Tyr Val Cys Ile Leu Ala Leu Gly
 20 25 30
 Leu Cys Ile Ser Ser Leu Gly His Ser Thr Lys His Phe Gln
 35 40 45
 Lys Gly Trp Ser Leu Pro Leu Asn Trp Phe Leu Leu Leu Ala Thr
 50 55 60
 Ala Phe Gln Leu Asp Phe Gly Lys Ser Pro Tyr Ser Phe Lys Thr
 65 70 75
 Ile Val Ser Pro Leu Ala Ser Phe Gln Val Ser Tyr Glu Ser Met
 80 85 90
 Arg Ser Leu His Pro Met Ser Ser Lys Glu Leu Ile Met Leu Arg
 95 100 105
 Leu Ala Gly Asp Leu Arg Thr Leu Thr Ser Ile Met Asn Cys Asp
 110 115 120
 Arg Lys Glu Cys Ile Leu Leu Thr Asn Pro Pro Ala Val
 125 130

<210> 50
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6817709CD1

<400> 50
 Met Lys Met Thr Ser Ile Phe Cys Leu Pro Val Ser Gly Glu Ala
 1 5 10 15
 Trp Pro Glu Glu Pro Lys Lys Gly Phe Ser Ala Leu Thr Leu Thr
 20 25 30
 Asp Leu Glu Leu Gly Gln Thr Pro Leu Pro Leu Ala His Phe
 35 40 45
 Pro Ile Cys Lys Met Gly Ser Leu Glu Met Ile Pro Glu Val
 50 55 60
 Cys Ser Ser Ser Asn Cys Asn Thr Gly Ser Asn Trp Cys Leu Ser
 65 70 75
 Ser Leu Val Cys Ala Glu Pro Arg Glu Thr Lys Asp Gly Met Val
 80 85 90
 Val His Thr Cys Asn Pro Ser Ser Pro Leu Cys Thr Gln Trp Pro
 95 100 105
 Glu His Ser Tyr His Val Ser Ala Leu Asn Leu Gln
 110 115

<210> 51
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6849312CD1

<400> 51
Met His Lys Phe Leu Cys Ser Lys Ile Tyr Leu Tyr Phe Leu Leu
1 5 10 15
Leu Cys Leu Asn Phe Ser His Ser Trp Arg Asp Phe His Cys Thr
20 25 30
Glu Val Arg Glu Glu Asp Thr His Val Phe Cys Asn Tyr Ala Tyr
35 40 45
Thr Val Asp Pro His Phe Phe Val Asp Leu Val Phe Val Cys Leu
50 55 60
Pro Pro Cys Gln Ser Leu Phe Val Thr Pro Lys Leu Met Ile Leu
65 70 75
Leu Val Ser Trp Ser Phe Ala Asp Met Cys Arg Ala Val Lys Tyr
80 85 90
Gly Val Thr Asn Val His Val Pro Ile
95

<210> 52
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7409581CD1

<400> 52
Met Leu Gln Gln Arg Gln Asp Leu Leu Thr Leu His Ser Gln Pro
1 5 10 15
Ile Trp Tyr Leu Trp Phe Arg Leu Phe Phe Trp Val Val Leu Arg
20 25 30
Val Ser Gln Gly Thr Met Lys Ser Gln Arg Val Met Cys Ile Leu
35 40 45
Pro Ser Pro Ser Ala Phe Pro Ala Glu Arg Arg Gly Ser Pro Ser
50 55 60
Ser Gly Arg Gly Lys Ser Pro Pro Pro Ala Gln Leu Leu His Pro
65 70 75
Ala Gln Gly Arg Trp Asp Phe Val Ala Thr Ile Leu Cys Thr Val
80 85 90
Tyr Ser Glu Leu Lys His Ser Gly Trp Pro Gly Thr Val Ala His
95 100 105
Ser Cys Asn Pro Ser Thr Leu Gly Gly
110

<210> 53
<211> 699
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7437113CD1

<400> 53
Met Ala Asp Pro Glu Val Cys Cys Phe Ile Thr Lys Ile Leu Cys
1 5 10 15
Ala His Gly Gly Arg Met Ala Leu Asp Ala Leu Leu Gln Glu Ile
20 25 30
Ala Leu Ser Glu Pro Gln Leu Cys Glu Val Leu Gln Val Ala Gly

| | | | |
|---|-----|-----|----|
| | 35 | 40 | 45 |
| Pro Asp Arg Phe Val Val Leu Glu Thr Gly Gly Glu Ala Gly Ile | | | |
| 50 | 55 | 60 | |
| Thr Arg Ser Val Val Ala Thr Thr Arg Ala Arg Val Cys Arg Arg | | | |
| 65 | 70 | 75 | |
| Lys Tyr Cys Gln Arg Pro Cys Asp Asn Leu His Leu Cys Lys Leu | | | |
| 80 | 85 | 90 | |
| Asn Leu Leu Gly Arg Cys Asn Tyr Ser Gln Ser Glu Arg Asn Leu | | | |
| 95 | 100 | 105 | |
| Cys Lys Tyr Ser His Glu Val Leu Ser Glu Glu Asn Phe Lys Val | | | |
| 110 | 115 | 120 | |
| Leu Lys Asn His Glu Leu Ser Gly Leu Asn Lys Glu Glu Leu Ala | | | |
| 125 | 130 | 135 | |
| Val Leu Leu Leu Gln Ser Asp Pro Phe Phe Met Pro Glu Ile Cys | | | |
| 140 | 145 | 150 | |
| Lys Ser Tyr Lys Gly Glu Gly Arg Gln Gln Ile Cys Asn Gln Gln | | | |
| 155 | 160 | 165 | |
| Pro Pro Cys Ser Arg Leu His Ile Cys Asp His Phe Thr Arg Gly | | | |
| 170 | 175 | 180 | |
| Asn Cys Arg Phe Pro Asn Cys Leu Arg Ser His Asn Leu Met Asp | | | |
| 185 | 190 | 195 | |
| Arg Lys Val Leu Ala Ile Met Arg Glu His Gly Leu Asn Pro Asp | | | |
| 200 | 205 | 210 | |
| Val Val Gln Asn Ile Gln Asp Ile Cys Asn Ser Lys His Met Gln | | | |
| 215 | 220 | 225 | |
| Lys Asn Pro Pro Gly Pro Arg Ala Pro Ser Ser His Arg Arg Asn | | | |
| 230 | 235 | 240 | |
| Met Ala Tyr Arg Ala Arg Ser Lys Ser Arg Asp Arg Phe Phe Gln | | | |
| 245 | 250 | 255 | |
| Gly Ser Gln Glu Phe Leu Ala Ser Ala Ser Ala Ser Ala Glu Arg | | | |
| 260 | 265 | 270 | |
| Ser Cys Thr Pro Ser Pro Asp Gln Ile Ser His Arg Ala Ser Leu | | | |
| 275 | 280 | 285 | |
| Glu Asp Ala Pro Val Asp Asp Leu Thr Arg Lys Phe Thr Tyr Leu | | | |
| 290 | 295 | 300 | |
| Gly Ser Gln Asp Arg Ala Arg Pro Pro Ser Gly Ser Ser Lys Ala | | | |
| 305 | 310 | 315 | |
| Thr Asp Leu Gly Gly Thr Ser Gln Ala Gly Thr Ser Gln Arg Phe | | | |
| 320 | 325 | 330 | |
| Leu Glu Asn Gly Ser Gln Glu Asp Leu Leu His Gly Asn Pro Gly | | | |
| 335 | 340 | 345 | |
| Ser Thr Tyr Leu Ala Ser Asn Ser Thr Ser Ala Pro Asn Trp Lys | | | |
| 350 | 355 | 360 | |
| Ser Leu Thr Ser Trp Thr Asn Asp Gln Gly Ala Arg Arg Lys Thr | | | |
| 365 | 370 | 375 | |
| Val Phe Ser Pro Thr Leu Pro Ala Ala Arg Ser Ser Leu Gly Ser | | | |
| 380 | 385 | 390 | |
| Leu Gln Thr Pro Glu Ala Val Thr Thr Arg Lys Gly Thr Gly Leu | | | |
| 395 | 400 | 405 | |
| Leu Ser Ser Asp Tyr Arg Ile Ile Asn Gly Lys Ser Gly Thr Gln | | | |
| 410 | 415 | 420 | |
| Asp Ile Gln Pro Gly Pro Leu Phe Asn Asn Asn Ala Asp Gly Val | | | |
| 425 | 430 | 435 | |
| Ala Thr Asp Ile Thr Ser Thr Arg Ser Leu Asn Tyr Lys Ser Thr | | | |
| 440 | 445 | 450 | |
| Ser Ser Gly His Arg Glu Ile Ser Ser Pro Arg Ile Gln Asp Ala | | | |
| 455 | 460 | 465 | |
| Gly Pro Ala Ser Arg Asp Val Gln Ala Thr Gly Arg Ile Ala Asp | | | |
| 470 | 475 | 480 | |
| Asp Ala Asp Pro Arg Val Ala Leu Val Asn Asp Ser Leu Ser Asp | | | |
| 485 | 490 | 495 | |
| Val Thr Ser Thr Thr Ser Ser Arg Val Asp Asp His Asp Ser Glu | | | |
| 500 | 505 | 510 | |
| Glu Ile Cys Leu Asp His Leu Cys Lys Gly Cys Pro Leu Asn Gly | | | |
| 515 | 520 | 525 | |
| Ser Cys Ser Lys Val His Phe His Leu Pro Tyr Arg Trp Gln Met | | | |
| 530 | 535 | 540 | |

Leu Ile Gly Lys Thr Trp Thr Asp Phe Glu His Met Glu Thr Ile
 545 550 555
 Glu Lys Gly Tyr Cys Asn Pro Gly Ile His Leu Cys Ser Val Gly
 560 565 570
 Ser Tyr Thr Ile Asn Phe Arg Val Met Ser Cys Asp Ser Phe Pro
 575 580 585
 Ile Arg Arg Leu Ser Thr Pro Ser Ser Val Thr Lys Pro Ala Asn
 590 595 600
 Ser Val Phe Thr Thr Lys Trp Ile Trp Tyr Trp Lys Asn Glu Ser
 605 610 615
 Gly Thr Trp Ile Gln Tyr Gly Glu Glu Lys Asp Lys Arg Lys Asn
 620 625 630
 Ser Asn Val Asp Ser Ser Tyr Leu Glu Ser Leu Tyr Gln Ser Cys
 635 640 645
 Pro Arg Gly Val Val Pro Phe Gln Ala Gly Ser Arg Asn Tyr Glu
 650 655 660
 Leu Ser Phe Gln Gly Met Ile Gln Thr Asn Ile Ala Ser Lys Thr
 665 670 675
 Gln Lys Asp Val Ile Arg Arg Pro Thr Phe Val Pro Gln Trp Tyr
 680 685 690
 Val Gln Gln Met Lys Arg Gly Pro Glu
 695

<210> 54
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7500260CD1

<400> 54
 Met Ala Leu Cys Pro Gly Gly Ser Pro Gln His Gln Asp Leu Ala
 1 5 10 15
 Gly Gln Leu Val Val His Glu Leu Phe Ser Ser Val Leu Gln Glu
 20 25 30
 Ile Cys Asp Glu Val Asn Leu Pro Leu Leu Thr Leu Ser Gln Pro
 35 40 45
 Leu Leu Leu Gly Ile Ala Arg Asn Glu Thr Ser Ala Gly Arg Ala
 50 55 60
 Ser Ala Glu Phe Tyr Val Gln Cys Ser Leu Thr Ser Glu Gln Val
 65 70 75
 Arg Lys His Tyr Leu Ser Gly Gly Pro Glu Ala His Glu Ser Thr
 80 85 90
 Gly Ile Phe Phe Val Glu Thr Gln Asn Val Arg Arg Leu Pro Glu
 95 100 105
 Thr Glu Met Trp Ala Glu Leu Cys Pro Ser Ala Lys Gly Ala Ile
 110 115 120
 Ile Leu Tyr Asn Arg Val Gln Gly Ser Pro Thr Gly Ala Ala Leu
 125 130 135
 Gly Ser Pro Ala Leu Leu Pro Pro Leu
 140

<210> 55
 <211> 382
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7659504CD1

<400> 55
 Met Pro Pro Leu Lys Leu Pro Lys Arg Gly Leu Glu Phe Trp Lys
 1 5 10 15
 Leu Ser Ala Ala Asp Val Ser Gly Val Trp Ala Met Val Phe Ala

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 20 | 25 | 30 | | | | | | | | | | | |
| Gln | Arg | Gly | Asp | Gly | Ala | Gln | Met | Gln | Gly | Pro | Leu | Met | Val | Thr |
| | | | | | | | | | | | | | | |
| | | | | 35 | 40 | 45 | | | | | | | | |
| Ala | Val | Ser | Gly | Ala | Val | Lys | Asp | Gly | Pro | Gly | Ser | Gly | Leu | His |
| | | | | | | | | | | | | | | |
| | | | | 50 | 55 | 60 | | | | | | | | |
| Phe | Pro | Glu | Cys | Thr | Val | Pro | Arg | Ala | Thr | Ser | Cys | Gln | Pro | Ser |
| | | | | | | | | | | | | | | |
| | | | | 65 | 70 | 75 | | | | | | | | |
| Val | Pro | Leu | Gly | Leu | Ile | Glu | Arg | Ser | Arg | Asn | Leu | Pro | Pro | Ser |
| | | | | | | | | | | | | | | |
| | | | | 80 | 85 | 90 | | | | | | | | |
| Arg | Asp | Arg | Arg | Ala | Gly | Ser | Ala | Phe | Pro | Ala | Arg | Cys | Leu | Thr |
| | | | | | | | | | | | | | | |
| | | | | 95 | 100 | 105 | | | | | | | | |
| Lys | Lys | Glu | Ser | Arg | Glu | Gly | Leu | Val | Asp | Leu | Met | Phe | Met | Leu |
| | | | | | | | | | | | | | | |
| | | | | 110 | 115 | 120 | | | | | | | | |
| Val | Gly | Asn | Leu | Ile | Asn | Val | Arg | Asn | Val | Gly | Lys | Pro | Ile | Phe |
| | | | | | | | | | | | | | | |
| | | | | 125 | 130 | 135 | | | | | | | | |
| Gly | Ala | His | Thr | Leu | Leu | Asp | Ile | Ser | Glu | Phe | Ile | Leu | Ala | Gly |
| | | | | | | | | | | | | | | |
| | | | | 140 | 145 | 150 | | | | | | | | |
| Asn | Leu | Met | Asn | Val | Ser | Asn | Ala | Gly | Arg | Leu | Leu | Leu | Gly | Leu |
| | | | | | | | | | | | | | | |
| | | | | 155 | 160 | 165 | | | | | | | | |
| Arg | Ile | Leu | Leu | Asn | Met | Arg | Lys | Phe | Thr | Met | Arg | Gly | Asn | Pro |
| | | | | | | | | | | | | | | |
| | | | | 170 | 175 | 180 | | | | | | | | |
| Met | Asn | Val | Arg | Asn | Val | Glu | Arg | Pro | Phe | Phe | Met | Ala | Gln | Ser |
| | | | | | | | | | | | | | | |
| | | | | 185 | 190 | 195 | | | | | | | | |
| Leu | Ile | Asp | Ile | Arg | Lys | Phe | Ile | Leu | Val | Arg | Glu | Thr | Met | Asn |
| | | | | | | | | | | | | | | |
| | | | | 200 | 205 | 210 | | | | | | | | |
| Val | Arg | Asn | Val | Glu | Arg | Pro | Phe | Phe | Val | Val | Gln | Asn | Leu | Ile |
| | | | | | | | | | | | | | | |
| | | | | 215 | 220 | 225 | | | | | | | | |
| Asp | Thr | Arg | Lys | Phe | Ile | Leu | Glu | Arg | Gly | His | Met | Asn | Val | Lys |
| | | | | | | | | | | | | | | |
| | | | | 230 | 235 | 240 | | | | | | | | |
| Asn | Val | Glu | Lys | Pro | Phe | Ser | Gly | Val | His | Asn | Leu | Leu | Asp | Ile |
| | | | | | | | | | | | | | | |
| | | | | 245 | 250 | 255 | | | | | | | | |
| Arg | Glu | Cys | Ile | Leu | Val | Arg | Asn | Leu | Thr | Tyr | Val | Lys | Asn | Val |
| | | | | | | | | | | | | | | |
| | | | | 260 | 265 | 270 | | | | | | | | |
| Gly | Asn | Leu | Leu | Ser | Gly | Val | His | Ser | Leu | His | Asp | Ile | Arg | Lys |
| | | | | | | | | | | | | | | |
| | | | | 275 | 280 | 285 | | | | | | | | |
| Phe | Ile | Leu | Met | Gln | Asn | Leu | Met | Asp | Ala | Arg | Lys | Val | Ala | Thr |
| | | | | | | | | | | | | | | |
| | | | | 290 | 295 | 300 | | | | | | | | |
| Ser | Leu | Val | Thr | Ile | His | Ile | Leu | Leu | Asn | Lys | Lys | Phe | Ile | Ile |
| | | | | | | | | | | | | | | |
| | | | | 305 | 310 | 315 | | | | | | | | |
| Val | Gln | Ile | Ser | Val | Asn | Gly | Gln | Thr | Met | Gly | Thr | Pro | Leu | Val |
| | | | | | | | | | | | | | | |
| | | | | 320 | 325 | 330 | | | | | | | | |
| Met | Ser | Gln | Thr | Leu | Leu | Asn | Thr | Arg | Ile | Phe | Thr | Leu | Leu | Arg |
| | | | | | | | | | | | | | | |
| | | | | 335 | 340 | 345 | | | | | | | | |
| Asn | Pro | Met | Asn | Leu | Lys | Ile | Leu | Arg | Lys | His | Phe | Leu | Gln | Ala |
| | | | | | | | | | | | | | | |
| | | | | 350 | 355 | 360 | | | | | | | | |
| Leu | Thr | Ser | Phe | His | Ser | Cys | Glu | Ile | Leu | Tyr | Lys | Ser | Val | Gly |
| | | | | | | | | | | | | | | |
| | | | | 365 | 370 | 375 | | | | | | | | |
| Arg | Ala | Leu | Phe | Met | Thr | His | | | | | | | | |
| | | | | 380 | | | | | | | | | | |

<210> 56
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 821165CD1

<400> 56
Met Arg Pro Pro Ile Trp Ser Leu Leu Ser Ser Leu Pro Leu Pro
1 5 10 15
Gly Ala Pro Pro Pro Thr Pro Ser Ser Leu Pro Pro Ser Pro Leu
20 25 30
Gly Pro Pro Pro Ala Trp Ala Pro Val Cys Leu Ser Pro Ala Ser
35 40 45
Gln Gln Asn Cys Gly Ser Met Ser Arg Asp Lys Val Leu Arg Gly

| | | | |
|-----|---------------------|---------------------|---------------------|
| | 50 | 55 | 60 |
| Thr | Gly Phe Gly Pro | Phe Leu Pro Ala Arg | Tyr Phe Ala Ala Gly |
| | 65 | 70 | 75 |
| Arg | Gly Gly Cys Ile Arg | Phe Leu Cys Pro | Gln Ser Thr Thr Ser |
| | 80 | 85 | 90 |
| Phe | Ser Ser | | |

<210> 57
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7499672CD1

<400> 57

| | | | |
|-----|---|-----|-----|
| Met | Thr Glu Trp Pro Ser Pro Gly Lys Thr Ser Val Val Thr Gly | | |
| 1 | 5 | 10 | 15 |
| Ile | Ile Lys Leu Trp Asn Val Arg Val Lys Ala Arg Val Cys Cys Glu | | |
| | 20 | 25 | 30 |
| Leu | Glu Leu Arg Glu Cys Leu Gly Ile Pro Pro Gly Ile Ser Lys | | |
| | 35 | 40 | 45 |
| Gly | Thr Met Ala Thr Ala Ser Leu Ala His Val Arg His Leu Leu | | |
| | 50 | 55 | 60 |
| Cys | Gln Ala Phe Ser Val Val Glu Lys Gly Gly Arg Arg Met Gln | | |
| | 65 | 70 | 75 |
| Leu | Phe Gln Cys Cys Leu Ala Val Pro Lys Ser Arg Asp Trp Ala | | |
| | 80 | 85 | 90 |
| Pro | His Leu Thr Ser Asn Phe Arg Phe Thr Leu Gly His Ser Cys | | |
| | 95 | 100 | 105 |
| Leu | Pro Leu Gln Ser | | |
| | 110 | | |

<210> 58
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7500276CD1

<400> 58

| | | | |
|-----|---|-----|-----|
| Met | Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala Leu Ser Thr | | |
| 1 | 5 | 10 | 15 |
| Ala | Ala Gln Ala Glu Pro Val Gln Phe Lys Asp Cys Asp Ile Gln | | |
| | 20 | 25 | 30 |
| Ser | Lys Ser Ser Lys Ala Val Val His Gly Ile Leu Met Gly Val | | |
| | 35 | 40 | 45 |
| Pro | Val Pro Phe Pro Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly | | |
| | 50 | 55 | 60 |
| Ile | Asn Cys Pro Ile Gln Lys Asp Lys Thr Tyr Ser Tyr Leu Asn | | |
| | 65 | 70 | 75 |
| Lys | Leu Pro Val Lys Ser Glu Tyr Pro Ser Ile Lys Leu Val Val | | |
| | 80 | 85 | 90 |
| Glu | Trp Gln Leu Gln Asp Asp Lys Asn Gln Ser Leu Phe Cys Trp | | |
| | 95 | 100 | 105 |
| Glu | Ile Pro Val Gln Ile Val Ser His Leu | | |
| | 110 | 115 | |

<210> 59
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1440723CD1

<400> 59
Met Ala Pro Ser Gln Val Phe Gly Leu Cys Leu Thr Thr Phe Ser
1 5 10 15
Leu Glu Lys Cys Gly Val Lys Ser Asp Met Gly Leu His Arg Gln
20 25 30
Pro Pro Gly Gly Gly Leu Ala Pro Pro Ala Ala Gly Gly Cys
35 40 45
His Gly His Leu Gin Gly Trp Leu Ser Gly Pro Ser Val Glu Ala
50 55 60
His Gln Glu Ala Pro Pro Val Pro Gly Leu Ser Gln Glu His Arg
65 70 75
Pro Gly Arg Gly Arg Ala Gly Gly Gln Trp His Glu Val Arg His
80 85 90
Gly Val Gly Pro Thr Pro Gln Ala Ala His His Pro Gln Pro Pro
95 100 105
Cys Ser Val Cys Lys Met Gly Pro Gln Trp Gly Leu Gly Arg Gly
110 115 120
Glu Asn Cys Pro Leu Pro Gln Ala Arg Ser Pro Glu Ser Trp Arg
125 130 135
Pro Ala Ser Pro Pro His Pro Ala Pro Pro Gln Gln Thr Leu Leu
140 145 150
Pro Val Gly Arg Cys Ala Arg Leu Gly Pro Leu
155 160

<210> 60
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7479612CD1

<400> 60
Met Tyr Leu Phe Ala Phe Leu Cys Cys Val Leu Leu Asn Ile Val
1 5 10 15
Ile Leu Leu Phe Leu Val Lys Phe His Glu Leu Leu Cys Thr Leu
20 25 30
Val Ser His Thr Gln His His Thr Asn Asn Glu Ile Ile Ser Asn
35 40 45
Phe Lys Leu Leu Ile Asp Trp Leu Ser Cys Ala Ile Asn Asp Asn
50 55 60
Ala Ile Cys Glu Pro Ala Arg His Arg Gln Asn Cys Leu Glu Lys
65 70 75
Ser Leu Ile Ser Thr Ser Cys Ile Asn Ser Asn Ser Pro
80 85

<210> 61
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1391514CD1

<400> 61
Met His Gln Gly Ser Val Phe Phe Tyr Phe Tyr Phe Leu Ser Leu
1 5 10 15
Ala Leu Ser Pro Arg Leu Glu Cys Lys Gly Ala Ile Ser Ala His
20 25 30
Cys Asn Leu Tyr Leu Ile Gly Leu Ser Ile Ser Leu His Ile Ala
35 40 45

Arg Ser Pro Cys Leu Phe Pro Asp Leu Leu Ala Trp Asp Phe Val
 50 55 60
 Pro Gly Gly Ile Pro Leu Val Cys Pro Pro Ser Gly Leu Val Ser
 65 70 75
 His Arg Leu Cys

<210> 62
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2102578CD1

<400> 62
 Met Asp Ser Arg Gly Ser Pro Leu Gly Gly Leu Gly Leu Pro Cys
 1 5 10 15
 Gly Ala Ser Leu Arg Arg Thr Pro Ala Ser Pro Ser Asp Ala Ile
 20 25 30
 Gln Arg Ala Leu Pro Gly Arg Lys Leu Pro Arg Trp Asn Ala Ser
 35 40 45
 Pro Glu Gln Arg Val Ala Val Pro Cys Gly Gly Leu Thr Gln Trp
 50 55 60
 Leu Asn Thr Gly Lys Glu Leu Ala Leu Gly Val Arg Thr Ser Glu
 65 70 75
 Thr

<210> 63
 <211> 116
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3213122CD1

<400> 63
 Met Gln Pro Cys Leu Ala Leu Cys Ala Pro Ala Cys Ser Leu Gln
 1 5 10 15
 Gln Pro Arg Glu Arg Gln Arg Gln Tyr Leu Leu Gly Lys Ser Trp
 20 25 30
 Lys Ala Gly Trp Ala Tyr Trp Leu Val Pro Gly Gly Arg Leu Arg
 35 40 45
 Pro Trp Asp Arg Arg Val Pro Thr Leu Pro Ser Gln Leu Leu Ala
 50 55 60
 Pro Gly Val Arg Pro Leu Ser Ser Lys Ser Gly Pro Arg Pro Phe
 65 70 75
 Pro Leu Trp Ser Ser Leu Phe His Leu Gln Gly Ala Gln Cys Pro
 80 85 90
 Glu Leu Gly Val Ser Glu Val Ala Arg Gly Ala Ser Gly Ala Gly
 95 100 105
 Cys Arg Ser Cys His Ser Pro Ser Thr Val Leu
 110 115

<210> 64
 <211> 558
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4326307CD1

<400> 64

Met Thr Val Phe Pro Leu Ser Ser Phe Phe Ile Leu Ile Phe Tyr
 1 5 10 15
 Leu Ser Leu Pro Asn Ser Phe Pro Asp Ile Thr Glu Asn Met Lys
 20 25 30
 Glu Leu Lys Glu Ala Arg Pro Arg Lys Asp Asn Arg Arg Pro Asp
 35 40 45
 Leu Glu Ile Tyr Lys Pro Gly Leu Ser Arg Leu Arg Asn Lys Pro
 50 55 60
 Lys Ile Lys Glu Pro Pro Gly Ser Glu Glu Phe Lys Asp Glu Ile
 65 70 75
 Val Asn Asp Arg Asp Cys Ser Ala Val Glu Asn Gly Thr Gln Pro
 80 85 90
 Val Lys Asp Val Cys Lys Glu Leu Asn Asn Gln Glu Gln Asn Gly
 95 100 105
 Pro Ile Asp Pro Glu Asn Asn Arg Gly Gln Glu Ser Phe Pro Arg
 110 115 120
 Thr Ala Gly Gln Glu Asp Arg Ser Leu Lys Ile Ile Lys Arg Thr
 125 130 135
 Lys Lys Pro Asp Leu Gln Ile Tyr Gln Pro Gly Arg Arg Leu Gln
 140 145 150
 Thr Val Ser Lys Glu Ser Ala Ser Arg Val Glu Glu Glu Glu Val
 155 160 165
 Leu Asn Gln Val Glu Gln Leu Arg Val Glu Glu Asp Glu Cys Arg
 170 175 180
 Gly Asn Val Ala Lys Glu Glu Val Ala Asn Lys Pro Asp Arg Ala
 185 190 195
 Glu Ile Glu Lys Ser Pro Gly Gly Arg Val Gly Ala Ala Lys
 200 205 210
 Gly Glu Lys Gly Lys Arg Met Gly Lys Gly Glu Gly Val Arg Glu
 215 220 225
 Thr His Asp Asp Pro Ala Arg Gly Arg Pro Gly Ser Ala Lys Arg
 230 235 240
 Tyr Ser Arg Ser Asp Lys Arg Arg Asn Arg Tyr Arg Thr Arg Ser
 245 250 255
 Thr Ser Ser Ala Gly Ser Asn Asn Ser Ala Glu Gly Ala Gly Leu
 260 265 270
 Thr Asp Asn Gly Cys Arg Arg Arg Arg Gln Asp Arg Thr Lys Glu
 275 280 285
 Arg Pro Pro Leu Lys Lys Gln Val Ser Val Ser Ser Thr Asp Ser
 290 295 300
 Leu Asp Glu Asp Arg Ile Asp Glu Pro Asp Gly Leu Gly Pro Arg
 305 310 315
 Arg Ser Ser Glu Arg Lys Arg His Leu Glu Arg Asn Trp Ser Gly
 320 325 330
 Arg Gly Glu Gly Glu Gln Lys Thr Ser Ala Lys Glu Tyr Arg Gly
 335 340 345
 Thr Leu Arg Val Thr Phe Asp Ala Glu Ala Met Asn Lys Glu Ser
 350 355 360
 Pro Met Val Arg Ser Ala Arg Asp Asp Met Asp Arg Gly Lys Pro
 365 370 375
 Asp Lys Gly Leu Ser Ser Gly Gly Lys Gly Ser Glu Lys Gln Glu
 380 385 390
 Ser Lys Asn Pro Lys Gln Glu Leu Arg Gly Arg Gly Arg Gly Ile
 395 400 405
 Leu Ile Leu Pro Ala His Thr Thr Leu Ser Val Asn Ser Ala Gly
 410 415 420
 Ser Pro Glu Ser Ala Pro Leu Gly Pro Arg Leu Leu Phe Gly Ser
 425 430 435
 Gly Ser Lys Gly Ser Arg Ser Trp Gly Arg Gly Gly Thr Thr Arg
 440 445 450
 Arg Leu Trp Asp Pro Asn Asn Pro Asp Gln Lys Pro Ala Leu Lys
 455 460 465
 Thr Gln Thr Pro Gln Leu His Phe Leu Asp Thr Asp Asp Glu Val
 470 475 480
 Ser Pro Thr Ser Trp Gly Asp Ser Arg Gln Ala Gln Ala Ser Tyr
 485 490 495
 Tyr Lys Phe Gln Asn Ser Asp Asn Pro Tyr Tyr Tyr Pro Arg Thr

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Pro | Ala | Ser | Gln | Tyr | Pro | Trp | His | Val | Trp | Glu | Gln | Phe |
| | | | | | 500 | | | | 505 | | | | | 510 |
| | | | | | 515 | | | | 520 | | | | | 525 |
| Leu | Leu | Glu | Arg | Met | Leu | Asn | Leu | Gln | Val | Asn | Phe | Lys | Ser | Pro |
| | | | | | 530 | | | | 535 | | | | | 540 |
| Ala | Thr | Ser | Gly | Lys | Lys | His | Glu | Gly | Ile | Lys | Gly | Gly | Gln | Ala |
| | | | | | 545 | | | | 550 | | | | | 555 |
| Ala | Gln | Arg | | | | | | | | | | | | |

<210> 65
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6037749CD1

<400> 65
Met Ala Val Phe His Asp Met Leu Leu Gln Pro Leu Gly Met Phe
1 5 10 15
Leu Cys Leu Ser Leu Gln Leu Ser Ser Ala Thr Phe Ile Arg Tyr
20 25 30
Ser Ser Thr Cys Phe Thr Phe Asp Glu Tyr Tyr Ile Thr Leu
35 40 45
Asp Ile Lys Ala Ser Ser His Ile Tyr Glu Ser Asn Ala Val Tyr
50 55 60
Ser Val Phe Val Pro Val Asn Asp Ser Val Tyr Ala Val Val Met
65 70 75
Lys Thr Leu Asp Glu Asn Ser Asp Ser Ala Gly Leu Trp Gln Arg
80 85 90
Ala Asp Lys Asn Cys Tyr Ser Asn Ser Thr Tyr Tyr Val Lys Asp
95 100 105
Gln Tyr Met Thr Val Leu Glu Ala Gln Trp Gln Ala Pro Glu Pro
110 115 120
Glu Asn Ile Thr Glu Val Glu Ile Gln Ala Phe Thr Val Gln Ile
125 130 135
Arg Ala Leu Pro Ile Leu Pro Thr Leu Lys Leu Arg Glu Lys Arg
140 145 150
Tyr Lys Glu Leu Leu
155

<210> 66
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6285519CD1

<400> 66
Met Gly Gln Lys Gln Ile Thr Met Val Glu Cys His Gln Leu Arg
1 5 10 15
Leu Phe Ser Leu Leu Leu Trp Ile Phe Ser Cys Phe Arg Pro Ser
20 25 30
Gly Cys Ile Arg Ala Gly Tyr Arg Gly Tyr Asp Gly Leu Ala Trp
35 40 45
Ala Gln Thr Val Pro Ala Pro Gln Thr Pro Ser Arg Gly Leu Glu
50 55 60
Val Lys Trp Gln Gly Ala Glu Leu Ser Cys Val Thr Cys Gln Gly
65 70 75
Leu His

<210> 67

<211> 240
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 70336045CD1

<400> 67

| | | | |
|---|-----|-----|----|
| Met Ala Thr Asp Glu Leu Ala Thr Lys Leu Ser Arg Arg Leu Gln | | | |
| 1 | 5 | 10 | 15 |
| Met Glu Gly Glu Gly Gly Glu Thr Pro Glu Gln Pro Gly Leu | | | |
| 20 | 25 | 30 | |
| Asn Gly Ala Ala Ala Ala Ala Gly Ala Pro Asp Glu Ala Ala | | | |
| 35 | 40 | 45 | |
| Glu Ala Leu Gly Ser Ala Asp Cys Glu Leu Ser Ala Lys Leu Leu | | | |
| 50 | 55 | 60 | |
| Arg Arg Ala Asp Leu Asn Gln Gly Ile Gly Glu Pro Gln Ser Pro | | | |
| 65 | 70 | 75 | |
| Ser Arg Arg Val Phe Asn Pro Tyr Thr Glu Phe Lys Glu Phe Ser | | | |
| 80 | 85 | 90 | |
| Arg Lys Gln Ile Lys Asp Met Glu Lys Met Phe Lys Gln Tyr Asp | | | |
| 95 | 100 | 105 | |
| Ala Gly Arg Asp Gly Phe Ile Asp Leu Met Glu Leu Lys Leu Met | | | |
| 110 | 115 | 120 | |
| Met Glu Lys Leu Gly Ala Pro Gln Thr His Leu Gly Leu Lys Asn | | | |
| 125 | 130 | 135 | |
| Met Ile Lys Glu Val Asp Glu Asp Phe Asp Ser Lys Leu Ser Phe | | | |
| 140 | 145 | 150 | |
| Arg Glu Phe Leu Leu Ile Phe Arg Lys Ala Ala Ala Gly Glu Leu | | | |
| 155 | 160 | 165 | |
| Gln Glu Asp Ser Gly Leu Cys Val Leu Ala Arg Leu Ser Glu Ile | | | |
| 170 | 175 | 180 | |
| Asp Val Ser Ser Glu Gly Val Lys Gly Ala Lys Ser Phe Phe Glu | | | |
| 185 | 190 | 195 | |
| Ala Lys Val Gln Ala Ile Asn Val Ser Ser Arg Phe Glu Glu Glu | | | |
| 200 | 205 | 210 | |
| Ile Lys Ala Glu Gln Glu Glu Arg Lys Lys Gln Ala Glu Glu Met | | | |
| 215 | 220 | 225 | |
| Lys Gln Arg Lys Ala Ala Phe Lys Glu Leu Gln Ser Thr Phe Lys | | | |
| 230 | 235 | 240 | |

<210> 68
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7153577CD1

<400> 68

| | | | |
|---|-----|----|----|
| Met Ala Phe Arg Pro Cys Pro Ser Leu Ser Ala His Thr Val Ser | | | |
| 1 | 5 | 10 | 15 |
| Cys Gly Ser Tyr Ala Pro Phe Cys Ser Ser Ser Leu Ser Pro Pro | | | |
| 20 | 25 | 30 | |
| Ile Ser Ala Arg Gln Ser Leu Arg Pro Val Lys Ile Ile Thr Gln | | | |
| 35 | 40 | 45 | |
| Phe Ser Trp Lys Leu Ile Ser Pro Cys Asp Pro Ala Gln Ile Leu | | | |
| 50 | 55 | 60 | |
| Pro Thr Val Phe Leu Asn Gly Leu Gly Glu Ile Gln Ser Gly Met | | | |
| 65 | 70 | 75 | |
| Ala Ser Leu Ala Gln Ala Gly Glu Trp Glu Arg Leu Gln Gly Ser | | | |
| 80 | 85 | 90 | |
| Ser Cys Tyr Tyr Phe Tyr Phe Tyr Ile Leu Tyr | | | |
| 95 | 100 | | |

<210> 69
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7500299CD1

<400> 69
Met Arg Pro Gly Ala Pro Gly Pro Leu Trp Pro Leu Pro Trp Gly
1 5 10 15
Ala Leu Ala Trp Ala Val Gly Phe Val Ser Ser Met Gly Ser Gly
20 25 30
Asn Pro Ala Pro Glu Ser Cys Glu His Val Val Cys Pro Arg Pro
35 40 45
Gln Ser Cys Val Val Asp Gln Thr Gly Ser Ala His Cys Val Val
50 55 60
Cys Arg Ala Ala Pro Cys Pro Val Pro Ser Cys Pro Gly Gln Glu
65 70 75
Leu Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys His Met
80 85 90
Arg Gln Ala Thr Cys Phe Leu Gly Arg Ser Ile Gly Val Arg His
95 100 105
Ala Gly Ser Cys Ala Gly Thr Pro Asp Glu Pro Pro Gly Gly Glu
110 115 120
Ser Ala Glu Glu Glu Asn Phe Val
125

<210> 70
<211> 500
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7480218CD1

<400> 70
Met Lys Cys Thr Ala Arg Glu Trp Leu Arg Val Thr Thr Val Leu
1 5 10 15
Phe Met Ala Arg Ala Ile Pro Ala Met Val Val Pro Asn Ala Thr
20 25 30
Leu Leu Glu Lys Leu Leu Glu Lys Tyr Met Asp Glu Asp Gly Glu
35 40 45
Trp Trp Ile Ala Lys Gln Arg Gly Lys Arg Ala Ile Thr Asp Asn
50 55 60
Asp Met Gln Ser Ile Leu Asp Leu His Asn Lys Leu Arg Ser Gln
65 70 75
Val Tyr Pro Thr Ala Ser Asn Met Glu Tyr Met Thr Trp Asp Val
80 85 90
Glu Leu Glu Arg Ser Ala Glu Ser Trp Ala Glu Ser Cys Leu Trp
95 100 105
Glu His Gly Pro Ala Ser Leu Leu Pro Ser Ile Gly Gln Asn Leu
110 115 120
Gly Ala His Trp Gly Arg Tyr Arg Pro Pro Thr Phe His Val Gln
125 130 135
Ser Trp Tyr Asp Glu Val Lys Asp Phe Ser Tyr Pro Tyr Glu His
140 145 150
Glu Cys Asn Pro Tyr Cys Pro Phe Arg Cys Ser Gly Pro Val Cys
155 160 165
Thr His Tyr Thr Gln Val Val Trp Ala Thr Ser Asn Arg Ile Gly
170 175 180
Cys Ala Ile Asn Leu Cys His Asn Met Asn Ile Trp Gly Gln Ile
185 190 195
Trp Pro Lys Ala Val Tyr Leu Val Cys Asn Tyr Ser Pro Lys Gly

| | | | |
|---|-----|-----|-----|
| | 200 | 205 | 210 |
| Asn Trp Trp Gly His Ala Pro Tyr Lys His Gly Arg Pro Cys Ser | | | |
| 215 | 220 | 225 | |
| Ala Cys Pro Pro Ser Phe Gly Gly Gly Cys Arg Glu Asn Leu Cys | | | |
| 230 | 235 | 240 | |
| Tyr Lys Glu Gly Ser Asp Arg Tyr Tyr Pro Pro Arg Glu Glu Glu | | | |
| 245 | 250 | 255 | |
| Thr Asn Glu Ile Glu Arg Gln Gln Ser Gln Val His Asp Thr His | | | |
| 260 | 265 | 270 | |
| Val Arg Thr Arg Ser Asp Asp Ser Ser Arg Asn Glu Val Ile Ser | | | |
| 275 | 280 | 285 | |
| Ser Gln Gln Met Ser Gln Ile Val Ser Cys Glu Val Arg Leu Arg | | | |
| 290 | 295 | 300 | |
| Asp Gln Cys Lys Gly Thr Thr Cys Asn Arg Tyr Glu Cys Pro Ala | | | |
| 305 | 310 | 315 | |
| Gly Cys Leu Asp Ser Lys Ala Lys Val Ile Gly Ser Val His Tyr | | | |
| 320 | 325 | 330 | |
| Glu Met Gln Ser Ser Ile Cys Arg Ala Ala Ile His Tyr Gly Ile | | | |
| 335 | 340 | 345 | |
| Ile Asp Asn Asp Gly Gly Trp Val Asp Ile Thr Arg Gln Gly Arg | | | |
| 350 | 355 | 360 | |
| Lys His Tyr Phe Ile Lys Ser Asn Arg Asn Gly Ile Gln Thr Ile | | | |
| 365 | 370 | 375 | |
| Gly Lys Tyr Gln Ser Ala Asn Ser Phe Thr Val Ser Lys Val Thr | | | |
| 380 | 385 | 390 | |
| Val Gln Ala Val Thr Cys Glu Thr Thr Val Glu Gln Leu Cys Pro | | | |
| 395 | 400 | 405 | |
| Phe His Lys Pro Ala Ser His Cys Pro Arg Val Tyr Cys Pro Arg | | | |
| 410 | 415 | 420 | |
| Asn Cys Met Gln Ala Asn Pro His Tyr Ala Arg Val Ile Gly Thr | | | |
| 425 | 430 | 435 | |
| Arg Val Tyr Ser Asp Leu Ser Ser Ile Cys Arg Ala Ala Val His | | | |
| 440 | 445 | 450 | |
| Ala Gly Val Val Arg Asn His Gly Gly Tyr Val Asp Val Met Pro | | | |
| 455 | 460 | 465 | |
| Val Asp Lys Arg Lys Thr Tyr Ile Ala Ser Phe Gln Asn Gly Ile | | | |
| 470 | 475 | 480 | |
| Phe Ser Glu Ser Leu Gln Asn Pro Pro Gly Gly Lys Ala Phe Arg | | | |
| 485 | 490 | 495 | |
| Val Phe Ala Val Val | | | |
| 500 | | | |

<210> 71
<211> 402
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7501159CD1

<400> 71
Met Ala Val Ser Gly Phe Thr Leu Gly Thr Cys Ile Leu Leu Leu
1 5 10 15
His Ile Ser Tyr Val Ala Asn Tyr Pro Asn Gly Lys Val Thr Gln
20 25 30
Ser Cys His Gly Met Ile Pro Glu His Gly His Ser Pro Gln Ser
35 40 45
Val Pro Val His Asp Ile Tyr Val Ser Gln Met Thr Phe Arg Pro
50 55 60
Gly Asp Gln Ile Glu Val Thr Leu Ser Gly His Pro Phe Lys Gly
65 70 75
Phe Leu Leu Glu Ala Arg Asn Ala Glu Asp Leu Asn Gly Pro Pro
80 85 90
Ile Gly Ser Phe Thr Leu Ile Asp Ser Glu Val Ser Gln Leu Leu
95 100 105
Thr Cys Glu Asp Ile Gln Gly Ser Ala Val Ser His Arg Ser Ala

| | | | |
|-------------------------------------|-----|-----|-----|
| Ser Lys Lys Thr Glu Ile Lys Val Tyr | 110 | 115 | 120 |
| | 125 | 130 | 135 |
| Ala Pro Asn His Thr Gln Phe Leu Val | | 140 | 145 |
| | | 145 | 150 |
| Lys Ile Tyr Trp Val Lys Ile Pro Gly | 140 | 150 | |
| | 155 | 160 | 165 |
| Asn Ala Phe Pro Phe Thr Thr Pro Lys | 155 | 160 | 165 |
| | 170 | 175 | 180 |
| Pro Thr Leu Pro Pro Val Ser His Leu | 170 | 175 | 180 |
| | 185 | 190 | 195 |
| Ser Asp Cys Gly Asn Lys Lys Phe Cys | 185 | 190 | 195 |
| | 200 | 205 | 210 |
| Cys Asp Pro Glu Lys Glu Ala Ser Cys | 200 | 205 | 210 |
| | 215 | 220 | 225 |
| Arg Asp Asp Gln Ser Val Met Val Glu | 215 | 220 | 225 |
| | 230 | 235 | 240 |
| Gly Tyr Leu Ser Phe Ala Leu Ser His | 230 | 235 | 240 |
| | 245 | 250 | 255 |
| Asp Asp Ala Tyr Leu Cys Ile His Glu | 245 | 250 | 255 |
| | 260 | 265 | 270 |
| Gln Pro Ser His Leu Thr Gly Arg Ser | 260 | 265 | 270 |
| | 275 | 280 | 285 |
| Arg Val Gly Thr Leu Glu Asp Met Ala | 275 | 280 | 285 |
| | 290 | 295 | 300 |
| Val Met Gln Cys Ser Phe Arg Arg Asn | 290 | 295 | 300 |
| | 305 | 310 | 315 |
| Lys Asn Arg Phe Asp Leu Asn Thr Ser | 305 | 310 | 315 |
| | 320 | 325 | 330 |
| Asp Gly Ala Ala Asn Asp Gly Arg Ile | 320 | 325 | 330 |
| | 335 | 340 | 345 |
| Pro Leu Ile Thr Tyr Glu Lys Tyr Asp | 335 | 340 | 345 |
| | 350 | 355 | 360 |
| Asn Ile Gly Gly Ser His Ser Val Leu | 350 | 355 | 360 |
| | 365 | 370 | 375 |
| Ala Ser Asp Ala His Val His His Asn | 365 | 370 | 375 |
| | 380 | 385 | 390 |
| Phe Cys Tyr Ala Val Tyr Ile Gln Gly | 380 | 385 | 390 |
| | 395 | 400 | |

<210> 72
<211> 363
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7501932CD1

<400> 72

| | | | | |
|---|-----|-----|-----|----|
| Met Ala Gln Gly Pro Gly His Pro Glu Ala | 1 | 5 | 10 | 15 |
| | | | | |
| Gln Asn Ser Ala Cys Ile Leu Ala Ser Trp | 20 | 25 | 30 | |
| | | | | |
| Ser Ser Leu Leu Gln Ala Leu Glu Ile Gln | 35 | 40 | 45 | |
| | | | | |
| Arg Ser Ile Glu Val Ala Lys Thr Gln Ala | 50 | 55 | 60 | |
| | | | | |
| Asp Glu Glu Gln Arg Leu Arg Val His Leu | 65 | 70 | 75 | |
| | | | | |
| His Gly Cys Arg Ile Arg Glu Leu Leu Glu | 80 | 85 | 90 | |
| | | | | |
| Thr Phe Leu Gln Glu Ser Gln Leu Leu Gln | 95 | 100 | 105 | |
| | | | | |
| Gly Pro Leu Thr Pro Leu Gln Trp Asp Glu | 110 | 115 | 120 | |
| | | | | |
| Asp Leu Lys Gln Leu Leu Ser Arg Leu Cys | | | | |
| | | | | |
| Gly Leu Leu Glu | | | | |

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Ser | His | 125 | Pro | Gly | Ala | Pro | Ala | Lys | Pro | Val | Asp | Leu | 135 | |
| | | | | 140 | | | | | | 145 | | | | | 150 | |
| Pro | Val | Glu | Ala | 155 | Pro | Gly | Pro | Leu | Ala | Pro | Val | Pro | Ser | Thr | Val | 165 |
| Cys | Pro | Leu | Arg | 170 | Arg | Lys | Leu | Trp | Gln | Asn | Tyr | Arg | Asn | Leu | Thr | 180 |
| Phe | Asp | Pro | Val | 185 | Ser | Ala | Asn | Arg | His | Phe | Tyr | Leu | Ser | Arg | Gln | 195 |
| Asp | Gln | Gln | Val | 200 | Lys | His | Cys | Arg | Gln | Ser | Arg | Gly | Pro | Gly | Gly | 210 |
| Pro | Gly | Ser | Phe | 215 | Glu | Leu | Trp | Gln | Val | Gln | Cys | Ala | Gln | Ser | Phe | 225 |
| Gln | Ala | Gly | His | 230 | His | Tyr | Trp | Glu | Val | Arg | Ala | Ser | Asp | His | Ser | 240 |
| Val | Thr | Leu | Gly | 245 | Val | Ser | Tyr | Pro | Gln | Leu | Pro | Arg | Cys | Arg | Leu | 255 |
| Gly | Pro | His | Thr | 260 | Asp | Asn | Ile | Gly | Arg | Gly | Pro | Cys | Ser | Trp | Gly | 270 |
| Leu | Cys | Val | Gln | 275 | Glu | Asp | Ser | Leu | Gln | Ala | Trp | His | Asn | Gly | Glu | 285 |
| Ala | Gln | Arg | Leu | 290 | Pro | Gly | Val | Ser | Gly | Arg | Leu | Leu | Gly | Met | Asp | 300 |
| Leu | Asp | Leu | Ala | 305 | Ser | Gly | Cys | Leu | Thr | Phe | Tyr | Ser | Leu | Glu | Pro | 315 |
| Gln | Thr | Gln | Pro | 320 | Leu | Tyr | Thr | Phe | His | Ala | Leu | Phe | Asn | Gln | Pro | 330 |
| Leu | Thr | Pro | Val | 335 | | | | | | 325 | | | | | 345 | |
| Cys | His | Gln | Pro | 350 | Gly | Ala | Val | Phe | Pro | Pro | Gly | Pro | Gln | Glu | | |
| | | | | | | | | | | 355 | | | | | 360 | |
| Val | Leu | Ser | | | | | | | | | | | | | | |

<210> 73
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7501111CD1

<400> 73

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Val | Gly | Val | Leu | Trp | Leu | Ile | Ser | Phe | Phe | Thr | Phe | Thr | |
| 1 | | | | 5 | | | | | 10 | | | | | | 15 |
| Asp | Gly | His | Gly | Gly | Phe | Leu | Gly | Lys | Asn | Asp | Gly | Ile | Lys | Thr | |
| | | | | | 20 | | | | 25 | | | | | | 30 |
| Lys | Lys | Glu | Leu | Ile | Val | Asn | Lys | Lys | His | Leu | Gly | Pro | Val | | |
| | | | | | 35 | | | | 40 | | | | | | 45 |
| Glu | Glu | Tyr | Gln | Leu | Leu | Leu | Gln | Val | Thr | Tyr | Arg | Asp | Ser | Lys | |
| | | | | | 50 | | | | 55 | | | | | | 60 |
| Glu | Lys | Arg | Asp | Leu | Arg | Asn | Phe | Leu | Lys | Leu | Leu | Lys | Pro | Pro | |
| | | | | 65 | | | | | 70 | | | | | | 75 |
| Leu | Leu | Trp | Ser | His | Gly | Leu | Ile | Arg | Ile | Ile | Arg | Ala | Lys | Ala | |
| | | | | 80 | | | | | 85 | | | | | | 90 |
| Thr | Thr | Asp | Cys | Asn | Ser | Leu | Asn | Gly | Val | Leu | Gln | Cys | Thr | Cys | |
| | | | | 95 | | | | | 100 | | | | | | 105 |
| Glu | Asp | Ser | Tyr | Thr | Trp | Phe | Pro | Pro | Ser | Cys | Leu | Asp | Pro | Gln | |
| | | | | 110 | | | | | 115 | | | | | | 120 |
| Asn | Cys | Tyr | Leu | His | Thr | Ala | Gly | Ala | Leu | Pro | Ser | Cys | Glu | Cys | |
| | | | | 125 | | | | | 130 | | | | | | 135 |
| His | Leu | Asn | Asn | Leu | Ser | Gln | Ser | Val | Asn | Phe | Cys | Glu | Arg | Thr | |
| | | | | 140 | | | | | 145 | | | | | | 150 |
| Lys | Ile | Trp | Gly | Thr | Phe | Lys | Ile | Asn | Glu | Arg | Phe | Thr | Asn | Asp | |
| | | | | 155 | | | | | 160 | | | | | | 165 |
| Leu | Leu | Asn | Ser | Ser | Ser | Ala | Ile | Tyr | Ser | Lys | Tyr | Ala | Asn | Gly | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Ile | Gln | Leu | Lys | Lys | Ala | Tyr | Glu | Arg | Ile | Gln | Gly | Phe |
| 170 | | | | | 175 | | | | 180 | | | | | |
| | | | | 185 | | 190 | | | | 195 | | | | |
| Glu | Ser | Val | Gln | Val | Thr | Gln | Phe | Arg | Asn | Ala | Val | Leu | Pro | Leu |
| | | | | 200 | | | 205 | | 205 | | 210 | | | |
| Ala | Glu | Thr | Gln | Ser | Trp | Ser | His | Pro | Val | Leu | | | | |
| | 215 | | | | | 220 | | | | | | | | |

<210> 74

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501113CD1

<400> 74

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Val | Gly | Val | Leu | Trp | Leu | Ile | Ser | Phe | Phe | Thr | Phe | Thr |
| 1 | | | | 5 | | | | 10 | | | | 15 | | |
| Asp | Gly | His | Gly | Gly | Phe | Leu | Gly | Lys | Asn | Asp | Gly | Ile | Lys | Thr |
| | | | | 20 | | | | 25 | | | | 30 | | |
| Lys | Lys | Glu | Leu | Ile | Val | Asn | Lys | Lys | His | Leu | Gly | Pro | Val | |
| | | | | 35 | | | | 40 | | | | 45 | | |
| Glu | Glu | Tyr | Gln | Leu | Leu | Gln | Val | Thr | Tyr | Arg | Asp | Ser | Lys | |
| | | | | 50 | | | | 55 | | | | 60 | | |
| Glu | Lys | Arg | Asp | Leu | Arg | Asn | Phe | Leu | Lys | Leu | Leu | Lys | Pro | Pro |
| | | | | 65 | | | | 70 | | | | 75 | | |
| Leu | Leu | Trp | Ser | His | Gly | Leu | Ile | Arg | Ile | Ile | Arg | Ala | Lys | Ala |
| | | | | 80 | | | | 85 | | | | 90 | | |
| Thr | Thr | Asp | Cys | Asn | Ser | Leu | Asn | Gly | Val | Leu | Gln | Cys | Thr | Cys |
| | | | | 95 | | | | 100 | | | | 105 | | |
| Glu | Asp | Ser | Tyr | Thr | Trp | Phe | Pro | Pro | Ser | Cys | Leu | Asp | Pro | Gln |
| | | | | 110 | | | | 115 | | | | 120 | | |
| Asn | Cys | Tyr | Leu | His | Thr | Ala | Gly | Ala | Leu | Pro | Ser | Cys | Glu | Cys |
| | | | | 125 | | | | 130 | | | | 135 | | |
| His | Leu | Asn | Asn | Leu | Ser | Gln | Ser | Val | Asn | Phe | Cys | Glu | Arg | Thr |
| | | | | 140 | | | | 145 | | | | 150 | | |
| Lys | Ile | Trp | Gly | Thr | Phe | Lys | Ile | Asn | Glu | Arg | Phe | Thr | Asn | Asp |
| | | | | 155 | | | | 160 | | | | 165 | | |
| Leu | Leu | Asn | Ser | Ser | Ser | Ala | Ile | Tyr | Ser | Lys | Tyr | Ala | Asn | Gly |
| | | | | 170 | | | | 175 | | | | 180 | | |
| Ile | Glu | Ile | Gln | Leu | Lys | Lys | Ala | Tyr | Glu | Arg | Ile | Gln | Gly | Phe |
| | | | | 185 | | | | 190 | | | | 195 | | |
| Glu | Ser | Val | Gln | Val | Thr | Gln | Phe | Arg | Asn | Gly | Ser | Ile | Val | Ala |
| | | | | 200 | | | | 205 | | | | 210 | | |
| Gly | Tyr | Glu | Val | Val | Gly | Ser | Ser | Ser | Ala | Ser | Glu | Leu | Leu | Ser |
| | | | | 215 | | | | 220 | | | | 225 | | |
| Ala | Ile | Glu | His | Val | Ala | Glu | Lys | Ala | Lys | Thr | Ala | Leu | His | Lys |
| | | | | 230 | | | | 235 | | | | 240 | | |
| Leu | Phe | Pro | Leu | Glu | Asp | Gly | Ser | Phe | Arg | Val | Phe | Gly | Lys | Gly |
| | | | | 245 | | | | 250 | | | | 255 | | |
| Ile | Phe | Tyr | Leu | Met | Leu | Trp | Asn | Thr | Leu | Gly | Gln | | | |
| | | | | 260 | | | | 265 | | | | | | |

<210> 75

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501118CD1

<400> 75

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Val | Gly | Val | Leu | Trp | Leu | Ile | Ser | Phe | Phe | Thr | Phe | Thr |
| 1 | | | | 5 | | | | 10 | | | | 15 | | |

Asp Gly His Gly Gly Phe Leu Gly Lys Asn Asp Gly Ile Lys Thr
 20 25 30
 Lys Lys Glu Leu Ile Val Asn Lys Lys His Leu Gly Pro Val
 35 40 45
 Glu Glu Tyr Gln Leu Leu Gln Val Thr Tyr Arg Asp Ser Lys
 50 55 60
 Glu Lys Arg Asp Leu Arg Asn Phe Leu Lys Leu Leu Lys Pro Pro
 65 70 75
 Leu Leu Trp Ser His Gly Leu Ile Arg Ile Ile Arg Ala Lys Ala
 80 85 90
 Thr Thr Asp Cys Asn Ser Leu Asn Gly Val Leu Gln Cys Thr Cys
 95 100 105
 Glu Asp Ser Tyr Thr Trp Phe Pro Pro Ser Cys Leu Asp Pro Gln
 110 115 120
 Asn Cys Tyr Leu His Thr Ala Gly Ala Leu Pro Ser Cys Glu Cys
 125 130 135
 His Leu Asn Asn Leu Ser Gln Ser Val Asn Phe Cys Glu Arg Thr
 140 145 150
 Lys Ile Trp Gly Thr Phe Lys Ile Asn Glu Arg Phe Thr Asn Asp
 155 160 165
 Leu Leu Asn Ser Ser Ser Ala Ile Tyr Ser Lys Tyr Ala Asn Gly
 170 175 180
 Ile Glu Ile Gln Pro Ser Val Met Thr Leu Ser Leu Asp Leu Gly
 185 190 195
 Pro Arg Met Met Asn Ile Pro Cys Pro Ala Ala Val Ala Thr Gly
 200 205 210
 Glu Thr Ser Gln Pro Ser Val Ser Pro Leu Gly Gly Arg Ser Ser
 215 220 225
 Gly Arg Leu Val Cys Ser Leu Cys Leu Lys Asn
 230 235

<210> 76

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501128CD1

<400> 76

Met Lys Val Gly Val Leu Trp Leu Ile Ser Phe Phe Thr Phe Thr
 1 5 10 15
 Asp Gly His Gly Gly Phe Leu Gly Lys Asn Asp Gly Ile Lys Thr
 20 25 30
 Lys Lys Glu Leu Ile Val Asn Lys Lys His Leu Gly Pro Phe
 35 40 45
 Glu Glu Tyr Gln Leu Leu Gln Val Thr Tyr Arg Asp Ser Lys
 50 55 60
 Glu Lys Arg Asp Leu Arg Asn Phe Leu Lys Leu Leu Lys Pro Pro
 65 70 75
 Leu Leu Trp Ser His Gly Leu Ile Arg Ile Ile Arg Ala Lys Ala
 80 85 90
 Thr Thr Asp Cys Asn Ser Leu Asn Gly Val Leu Gln Cys Thr Cys
 95 100 105
 Glu Asp Ser Tyr Thr Trp Phe Pro Pro Ser Cys Leu Asp Pro Gln
 110 115 120
 Asn Cys Tyr Leu His Thr Ala Gly Ala Leu Pro Ser Cys Glu Cys
 125 130 135
 His Leu Asn Asn Leu Ser Gln Ser Val Asn Phe Cys Glu Arg Thr
 140 145 150
 Lys Ile Trp Gly Thr Phe Lys Ile Asn Glu Arg Phe Thr Asn Asp
 155 160 165
 Leu Leu Asn Ser Ser Ser Ala Ile Tyr Ser Lys Tyr Ala Asn Gly
 170 175 180
 Ile Glu Ile Gln Leu Lys Lys Ala Tyr Glu Arg Ile Gln Gly Phe
 185 190 195

Glu Ser Val Gln Val Thr Gln Phe Arg Asn Ala Val Leu Pro Leu
 200 205 210
 Ala Glu Thr Gln Ser Trp Ser His Pro Val Leu
 215 220

<210> 77
<211> 410
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7501920CD1

<400> 77
 Met Lys Val Gly Val Leu Trp Leu Ile Ser Phe Phe Thr Phe Thr
 1 5 10 15
 Asp Gly His Gly Gly Phe Leu Gly Gly Pro Val Glu Glu Tyr Gln
 20 25 30
 Leu Leu Leu Gln Val Thr Tyr Arg Asp Ser Lys Glu Lys Arg Asp
 35 40 45
 Leu Arg Asn Phe Leu Lys Leu Leu Lys Pro Pro Leu Leu Trp Ser
 50 55 60
 His Gly Leu Ile Arg Ile Ile Arg Ala Lys Ala Thr Thr Asp Cys
 65 70 75
 Asn Ser Leu Asn Gly Val Leu Gln Cys Thr Cys Glu Asp Ser Tyr
 80 85 90
 Thr Trp Phe Pro Pro Ser Cys Leu Asp Pro Gln Asn Cys Tyr Leu
 95 100 105
 His Thr Ala Gly Ala Leu Pro Ser Cys Glu Cys His Leu Asn Asn
 110 115 120
 Leu Ser Gln Ser Val Asn Phe Cys Glu Arg Thr Lys Ile Trp Gly
 125 130 135
 Thr Phe Lys Ile Asn Glu Arg Phe Thr Asn Asp Leu Leu Asn Ser
 140 145 150
 Ser Ser Ala Ile Tyr Ser Lys Tyr Ala Asn Gly Ile Glu Ile Gln
 155 160 165
 Leu Lys Lys Ala Tyr Glu Arg Ile Gln Gly Phe Glu Ser Val Gln
 170 175 180
 Val Thr Gln Phe Arg Asn Gly Ser Ile Val Ala Gly Tyr Glu Val
 185 190 195
 Val Gly Ser Ser Ser Ala Ser Glu Leu Leu Ser Ala Ile Glu His
 200 205 210
 Val Ala Glu Lys Ala Lys Thr Ala Leu His Lys Leu Phe Pro Leu
 215 220 225
 Glu Asp Gly Ser Phe Arg Val Phe Gly Lys Ala Gln Cys Asn Asp
 230 235 240
 Ile Val Phe Gly Phe Gly Ser Lys Asp Asp Glu Tyr Thr Leu Pro
 245 250 255
 Cys Ser Ser Gly Tyr Arg Gly Asn Ile Thr Ala Lys Cys Glu Ser
 260 265 270
 Ser Gly Trp Gln Val Ile Arg Glu Thr Cys Val Leu Ser Leu Leu
 275 280 285
 Glu Glu Leu Asn Lys Asn Phe Ser Met Ile Val Gly Asn Ala Thr
 290 295 300
 Glu Ala Ala Val Ser Ser Phe Val Gln Asn Leu Ser Val Ile Ile
 305 310 315
 Arg Gln Asn Pro Ser Thr Thr Val Gly Asn Leu Ala Ser Val Val
 320 325 330
 Ser Ile Leu Ser Asn Ile Ser Ser Leu Ser Leu Ala Ser His Phe
 335 340 345
 Arg Val Ser Asn Ser Thr Met Glu Asp Val Ile Ser Ile Ala Asp
 350 355 360
 Asn Ile Leu Asn Ser Ala Ser Ala Asn Gln Leu Asp Ser Leu Thr
 365 370 375
 Ala Gly Arg Lys Val Cys Gln Leu Thr Val Thr Arg Asp Ile Arg
 380 385 390

Lys His Gln His Ser Gly Ala Ser Asp Ser Ser Ser Glu Phe
 395 400 405
 Phe Ser Glu Ile His
 410

<210> 78
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7510325CD1

<400> 78
 Met Gln Met Glu Leu Lys Phe Asn Leu Lys Lys His Met Lys Glu
 1 5 10 15
 Phe Lys Val Leu Ser Arg Phe Arg Ser Pro Asn Phe Glu Met Glu
 20 25 30
 Ala Ser Leu Leu Gly Met Lys Leu Leu Ala Pro Ala Val His Leu
 35 40 45
 Asn Cys Cys Gln Pro Leu Asn Met Leu Pro Arg Arg Leu Arg Gln
 50 55 60
 Pro Phe Thr Ser Cys Phe His
 65

<210> 79
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7510966CD1

<400> 79
 Met Gln Met Glu Leu Lys Phe Asn Leu Lys Lys His Met Lys Glu
 1 5 10 15
 Phe Lys Val Leu Ser Arg Phe Arg Ser Pro Asn Phe Ala Met Leu
 20 25 30
 Ser Phe His Leu Gln Arg Pro Asn Pro Gly Ala Ile Leu Cys Tyr
 35 40 45
 Asn Phe Phe Tyr

<210> 80
 <211> 495
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7386101CD1

<400> 80
 Met Ala Ala Gln Leu Leu Glu Glu Lys Leu Thr Cys Ala Ile Cys
 1 5 10 15
 Leu Gly Leu Tyr Gln Asp Pro Val Thr Leu Pro Cys Gly His Asn
 20 25 30
 Phe Cys Gly Ala Cys Ile Arg Asp Trp Trp Asp Arg Cys Gly Lys
 35 40 45
 Ala Cys Pro Glu Cys Arg Glu Pro Phe Pro Asp Gly Ala Glu Leu
 50 55 60
 Arg Arg Asn Val Ala Leu Ser Gly Val Leu Glu Val Val Arg Ala
 65 70 75
 Gly Pro Ala Arg Asp Pro Gly Pro Asp Pro Gly Pro Gly Pro Asp
 80 85 90

| | | |
|---|-----|-----|
| Pro Ala Ala Arg Cys Pro Arg His Gly Arg Pro Leu Glu Leu Phe | | |
| 95 | 100 | 105 |
| Cys Arg Thr Glu Gly Arg Cys Val Cys Ser Val Cys Thr Val Arg | | |
| 110 | 115 | 120 |
| Glu Cys Arg Leu His Glu Arg Ala Leu Leu Asp Ala Glu Arg Leu | | |
| 125 | 130 | 135 |
| Lys Arg Glu Ala Gln Leu Arg Ala Ser Leu Glu Val Thr Gln Gln | | |
| 140 | 145 | 150 |
| Gln Ala Thr Gln Ala Glu Gly Gln Leu Leu Glu Leu Arg Lys Gln | | |
| 155 | 160 | 165 |
| Ser Ser Gln Ile Gln Asn Ser Ala Cys Ile Leu Ala Ser Trp Val | | |
| 170 | 175 | 180 |
| Ser Gly Lys Phe Ser Ser Leu Leu Gln Ala Leu Glu Ile Gln His | | |
| 185 | 190 | 195 |
| Thr Thr Ala Leu Arg Ser Ile Glu Val Ala Lys Thr Gln Ala Leu | | |
| 200 | 205 | 210 |
| Ala Gln Ala Arg Asp Glu Glu Gln Arg Leu Arg Val His Leu Glu | | |
| 215 | 220 | 225 |
| Ala Val Ala Arg His Gly Cys Arg Ile Arg Glu Leu Leu Glu Gln | | |
| 230 | 235 | 240 |
| Val Asp Glu Gln Thr Phe Leu Gln Glu Ser Gln Leu Leu Gln Pro | | |
| 245 | 250 | 255 |
| Pro Gly Pro Leu Gly Pro Leu Thr Pro Leu Gln Trp Asp Glu Asp | | |
| 260 | 265 | 270 |
| Gln Gln Leu Gly Asp Leu Lys Gln Leu Leu Ser Arg Leu Cys Gly | | |
| 275 | 280 | 285 |
| Leu Leu Leu Glu Glu Gly Ser His Pro Gly Ala Pro Ala Lys Pro | | |
| 290 | 295 | 300 |
| Val Asp Leu Ala Pro Val Asp Tyr Arg Asn Leu Thr Phe Asp Pro | | |
| 305 | 310 | 315 |
| Val Ser Ala Asn Arg His Phe Tyr Leu Ser Arg Gln Asp Gln Gln | | |
| 320 | 325 | 330 |
| Val Lys His Cys Arg Gln Ser Arg Gly Pro Gly Gly Pro Gly Ser | | |
| 335 | 340 | 345 |
| Phe Glu Leu Trp Gln Val Gln Cys Ala Gln Ser Phe Gln Ala Gly | | |
| 350 | 355 | 360 |
| His His Tyr Trp Glu Val Arg Ala Ser Asp His Ser Val Thr Leu | | |
| 365 | 370 | 375 |
| Gly Val Ser Tyr Pro Gln Leu Pro Arg Cys Arg Leu Gly Pro His | | |
| 380 | 385 | 390 |
| Thr Asp Asn Ile Gly Arg Gly Pro Cys Ser Trp Gly Leu Cys Val | | |
| 395 | 400 | 405 |
| Gln Glu Asp Ser Leu Gln Ala Trp His Asn Gly Glu Ala Gln Arg | | |
| 410 | 415 | 420 |
| Leu Pro Gly Val Ser Gly Arg Leu Leu Gly Met Asp Leu Asp Leu | | |
| 425 | 430 | 435 |
| Ala Ser Gly Cys Leu Thr Phe Tyr Ser Leu Glu Pro Gln Thr Gln | | |
| 440 | 445 | 450 |
| Pro Leu Tyr Thr Phe His Ala Leu Phe Asn Gln Pro Leu Thr Pro | | |
| 455 | 460 | 465 |
| Val Phe Trp Leu Leu Glu Gly Arg Thr Leu Thr Leu Cys His Gln | | |
| 470 | 475 | 480 |
| Pro Gly Ala Val Phe Pro Leu Gly Pro Gln Glu Glu Val Leu Ser | | |
| 485 | 490 | 495 |

<210> 81
<211> 1146
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1417062CB1

<400> 81
gcgcaagaag gtgcctgcgg gactggagca gagcgggctg cgagggtctt cccagcgtag 60

gcgggttttc cagtgttact tgccggctggg cgtgggggac tagctgcctt tctggcagca 120
 ggcaggaaagc cgaaaaaaagt ttctcgagccc ccgaacctgt agcggacgtg gaaaaagaac 180
 gccccctcctc aagtgtctgg ctgaaagatg ccacccaggg aagggaaactc gggctagcta 240
 aggaggccat tcttgatgtt gcttcttagat ctcatgtcat caccgagccc tcagctgctg 300
 gtggcagctg ctcagcagac ccttggcatg ggaaagagac ggagtccacc ccaagccatc 360
 tgccttcaact tagctggaga ggtgtggct gtggcccccggg gactgaagcc agctgtgctc 420
 tatgattgca actgtgcagg ggcacatcagag ctccagagct atctggagga gctgaagggg 480
 cttggcttcc tgacttttg acttcacatc cttgagattt gagaaaacag cctgattgtc 540
 agtccctgagc atgtatgtca gcacttggag caggtgtctgc ttggtaaccat agcctttgtg 600
 gatgttcca gctgccaggc tcacccctct gtctgtctcc tggaccagct tcaggactt 660
 aaggccctcg tggctgagat catcacatc ttgcaggggc tgcagaggga cttatctcta 720
 gcagttcttc acagcaggct ccattcctca gacttggaaatc tttgttactgt atttggatc 780
 ctcctgggtt atcctgttcc ctatacctt cacctgaacc agggagatg caactgttta 840
 gctctgactc cactacgagt attcaactgcc cggatctcat ggttgcattt tcaacccccc 900
 atcctgctct attcttttag tggccagag agtttggcc caggcctgag ggacattctta 960
 aacacctggg agaaggactt cagaacccga tttaggactt agaatactt tgctgtatctc 1020
 agcatctctt ctgagatagt cacactgccg gctgtggccc tctgacttta actctcctcc 1080
 catatagaag gtactcagta aatgtatcatc tctagttgg ggatggcaaa taatcatctc 1140
 aactgc 1146

<210> 82
 <211> 1043
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2007701CB1

<400> 82
 aagaattcgg cacgagggtt aaccttgcact ttccacagtc ctgagggttcc caaaataaaag 60
 gggAACCGGA aataccaaag gattatctcc aatattccag ggccttcttt ctcatctctg 120
 tctttaccat acttactggc cttggctggc tcttcagctc ttggatcctt aatcgaggaa 180
 gcatgaccac caacttggat ctgaaggtat ccatgtctca cttcatctca gctacctgt 240
 tgctctctg cctcaacccgt ttttgtggcac aggttactgt gcatactagg gatgccatgg 300
 agtcagatctt cttatggacc tttatctta atgggtcgat tgacatcttt tacatgtttt 360
 ctggatcat ctctcttctc aactacttaa cttccagatc gcctgcctgt gatgaaaacg 420
 tcactgtgtat tccaacagag agatcaaggc tgggggttgg tccgggtact acagtatcac 480
 ctgctaaaga tgaaggggca aggttgcata tggaaatctt aagtgtgaga gagaaaaatt 540
 tacccaaagtc aggactgtgg tggtgatagg aaaacctaact tatacgatgt cttaaaagca 600
 ggggagaagc tgagttggga atggtcacat aaattctggg aaactctctt aatatcatgt 660
 ccatattact tgaggagaca gcattaaagc tgatgaaatg tcttttgcgt gcattggatc 720
 caaaatataat atgatagtca taaagtaat aactcaacttta agaaaaaacat ttctaaaaga 780
 aaacaacaat gtttagatc atgaatggaaa gaaactatgtt aaagatgcag tttgttagacc 840
 agagacctct ttgggtatca gggatctcat ggaccagaat ggcccggtgga gaagaatgtt 900
 aattacttctt gtttggaaatt ttctttatca tttgtgtggctt tgggtataact caggatggaa 960
 agcaatggca caaatactgt tgaatctgaa cttaatagca ttaccagaaa tggaaataat 1020
 atcaatggat ataagaccta aaa 1043

<210> 83
 <211> 1684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2915695CB1

<400> 83
 cctttttttt tttttttctc agttcatcaa tttttttttt ttttaaagat aaattttctt 60
 ttacattgac atggggcttc actatgttgc ccagggtgtt ctc当地ctcc tgggctcaag 120
 caatctccc accttggcct cgcaaagtgc taggattaca agggtgagcc attcacactg 180
 gcctgttcat caatgtgtat agtatttaat tacattatga attacaataa cacatacaac 240
 gggcatagac acacttgata ttaaatcaca atggactctg ggtaagcaag ggcttagctg 300
 gggaaatggaa actgcacagc attctagaaa gtgctactg cctgggtttt attccagct 360
 tctctacata etagtttatgt gacctggaa ttccatgttac tgaagctttt tggcttattt 420
 tccctatggat cggaaaggggta taatagcacc tccatataattt gttgtgagga 480

atacacttgt gaagcaccta gaatagggtg gggcatgagc taagcaccta gaatagggtg 540
 gggcatgagc taagcaccta gaatagggtg gggcatgagc taagcaccta gaatagggtg 600
 gggctgagc taagcaccta gaatagggtg gggcatgagc taagtacttg gaaaatgtta 660
 catatcacat cactgttct gtggctgctg gcaggagctg tcctacaggc tacaggccac 720
 agcctaggcc tgcgcccagc atcccctgtg tttcacagag aagtaaggtg cattgggtgg 780
 gtaagatgcc tcttcgttag tattatatcc tcatttctca tgcataaaaa ttgcacgtctg 840
 gagacagtca gtgactccaa agtacttga ccacgaagtc agtffffaga actgccaggc 900
 ccctagcaat cgtaagatt ggattcagaa agacaggaa tttgcacatcc attttccctt 960
 ttcttttac ctactgtc caaaaatccc aaggaggaa acacagaacc tctcaggggcc 1020
 gagcctgcaa agcccttggc cagccctcctc aggagtccac tggctgcact gtgttccaca 1080
 tccctgcagg gtcgacaa tggaaagagg cttggccccc aggacccct agtgtgtgcg 1140
 tggtggacag gtgcctcagg gatgagggtt gaggctggca gggggagggtc acacaatagt 1200
 gcagatgccc gactccatgg gtctcctctg gcggctcctg ctgaggctt ccctggcca 1260
 cctggatgac ctattggctt gaggccatt gggtaccaag atgcttaggt actccgctct 1320
 gggagggcct ggacctacaa atgaaagatg gcccctgggt cctggaccta gatggaggct 1380
 ttgcggagga ctgtccctc gcagggcgtg tgcttggta acgtggggca actagaagct 1440
 agatgggtcg aatgattcac tgcctgtt gggaaacaca ctgaaaagga gacatcggt 1500
 aattcaggc aacttcacaa gtagcaaaga actctgtcc ctgagttgc aactttgtg 1560
 ggagatgcta ttgagtagt agctgggggtt taccacacgc acccagcgct gtgttggca 1620
 cagatggc ttccagcaaa accctggggc ccaagatgca aagttctaga agttaggaaa 1680
 gcca 1684

<210> 84
 <211> 1584

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2969449CB1

<400> 84
 tttagccagg atggctctgga tctccgtacc tgcgtatcca cccgcctagg cctcccaaag 60
 tgctggatt acagggttaa gccaccacgc ccggccctga ggctcttta aacagtgttt 120
 agggccaac gtctatgggt caaacatcgat ctcctcaat gtggagcaca gtgacttaat 180
 ttcccaact gtcagactca tgcacctgtt gggggatgaa accaaaggaa cccacctcat 240
 caggagaatg aaatgggaca gccccttagc tttagtccctg gcagctggca agcactgtct 300
 aagtgttccc ttttattatc atattaatgt acaggataga gggggatttc tcagcctcag 360
 cactactgac atgttgggtt agatcatttt tcatgggtt tggaggctg tcctgtcat 420
 agcaggatgg gcagcagcat ccctgaccc tgcctactcc ctccctccca ggctatgaca 480
 gccaacagtg tctccatata ttgaaaaatg tcccttggag cccaaatgccc ccagttaaa 540
 aacattgttca cgcaacacggc agatcttat tgcctatgaa tctaaatgac ttacaattct 600
 atcatctgtt gacttccctg aggacaaatg tggcatgtcc aagaattctt agtgcgcctt 660
 ctatcaaact agtctctctt gtgttccac ttccgtgttcc acagcttagt gccaaggca 720
 ggatgttggg agccccctgg actcttcctc tccctcacct ttacactgac cccagtcctc 780
 ctggggccc catccgttct caggcgatgg atgtgttccct cgtgctgaga catccagatt 840
 cactgtccc ctgaccccttca gacccctggg aagtccaccc cccatctgccc tacaccctct 900
 gctctcaggat gaggccaaatcc ctatcttctg ttactcaag ttgaaaccgg acacatccctt 960
 gctctactt ctctccatcc tccatccatcc tcccttcaggc aaattctatgt agtctctctt 1020
 tcagaacata gtcacatctt ggtcaatctt cactgtccac ctggcttggg ccaccacac 1080
 tcctcatcttca gactgttgc tgcgtccat cgtctccat ttatcccgac aatcttattct 1140
 cagttgagca gcccacagaga cctggtagag gcctgaacca gctcccaac cccctgctcaa 1200
 catccccccat caggccccctt ttggccaaagg cctccgttcc acgctgaagg cccctcaccc 1260
 ctactcttc gacgtcatctt ctggcttccct tcccttttc ttttgcacgt tctcaagcac 1320
 accccggcatg ctccctgtttt acggtttttg gacctgttgc tcccttgc tgcgttggc 1380
 ccagaaaagct gtccttgcacg cactggcccc cttcaggatct ttcttccatgtt attaccttct 1440
 tggggatctt ttccctgacca ccctattttaa ggctccatcat gcatcacccca ccacacccca 1500
 tggttccctt tggctgtatgtt tttccatgtt cactgattgc aatcaatata ctctgttatgt 1560
 attttatgtt tttccatgtt atgc 1584

<210> 85
 <211> 1490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 2994102CB1

<400> 85

gtttcagggg acaaacatcc agatgatagc aatgcctcg ggagcttcct cactctgtcc 60
tctgtctgcc ttcagctgt gagaggaact gcaggccagt taatgccagc aaagacattc 120
tgctcagggt caccatgggg gaggactctc cagtggctat gttcagctgg tatttggaca 180
acaccccaac agagcaggtc gagccctcc cggatgcctg cagactcaga gatTTTggc 240
caaggtcctt aaccctcctc cagagaaca cctccacgtt gctgttgaac agctcggtt 300
tgcagtcggc gggagaggtc atccgaatca gagccacagc actgaccagg catgcctatg 360
gggagacac ctatgtgate agcactgtgc ctccccgtga ggtgcctgccc tgcaacttgc 420
ccccagagga gggcacccgtt tcgaagactt ctgcctatctt ctgcacacgccc tccacagccc 480
tgggaccctt ggatgtctgc ttctgtctgg aatcagggtt cgccttacac tggccctgt 540
aacctgcctt cccatcagt tatctgcac ttggagagga gaacaatgac ttgtgtctga 600
cagtagttat ttctgccacc aatcgtgcag gggacacgcgca gcagaccccg gccatggcta 660
aggtggact cggagacaca tgtgttgggg atgttagcatt ccaggctgccc gtgtcagaga 720
aaatccccac agctctgcaa ggcgagggtg gcccggagca gctcctccag ctggccaagg 780
ctgtgcctc catgtgaac caagagcatg aaaggccagggtc ctcaggacag tcaactgagca 840
tagacgtcag acagaagggtc agagacatgt tgctgggatc actgtctgca gtcaccaccc 900
gcttggagga cgtgcaggggtc tgccggaggtt gctgagagag gtgacccgtcc 960
ggagtaagga actcacaccc tcggcccccgg ggtcctgtcat gggcgattca tggaaagggtg 1020
ccccctcctgc tgcccatgtt tctcaegcta ggtgagaggg cctgtttgc cagactctca 1080
ctcctgcata tgctgggtgag caagttgggg ggttactga atctcattaa tatttgggtg 1140
gccaatgtg agtccagaca ctgtactga ctgcccattgt tctcaacttc agtacatgcc 1200
agcctgacat ctggctgcca gtcctgtgc ttcttatcc ttctgggggtt ctctctgtac 1260
cctcagagcc tactgttactt gcccattatgg ctgtgaattt atgcagtgtt cagtgactaa 1320
tgaagctggc ttataaacac cccagctacc tcaccctctt tgatggataa tcccaagcag 1380
gagtaatcc caggtaatgg gcttgcatac actcctgtac tggcccttccac cttccctgt 1440
ctcacacccca ctactcccca caagtgttcc ttggatcat gtccaaataa 1490

<210> 86

<211> 1418

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3410251CB1

<400> 86

caggaacgggg ctccgcggac gacgggctcc aggacacgcac aggcaegggg cctccacccg 60
cggtggccgg ggggggggg gctgccttca tgcggggccccc ttctgttgc cggcctcgcc 120
cgctctgtc gctgtgtctc ctgtgtcgc cttggcctgt ctggggccat gtgtcggcca 180
cggctcgcc ctgggggtcc ctggggccccc cggactgtccc cgagggtgtc acgtgcgtgc 240
cgggaggcct ggccagctgc tcggactct cgttgcctgc cgtgccccccg ggcctgagcc 300
tgcgcctgctc cgcgcgtctg ctggaccaca accgcgtccg tgcgcgtccg ccaggtgcct 360
tcgcgggagc gggcgctca cagcgctgg acctgcgcga gaacgggtcg cactcggtgc 420
atgtgcgagc ttctgtgggc ctggggcgcc tgcagctgtt ggacctgagc gccaaccagc 480
tggaaagact ggcaccaggg gctttcgccgc cgttgcgcgc gctgcgcac acctcattgg 540
ccggcaacccg gtcggcgccgc ctggggccccc cggcgcttagg cgcgcctcccg ctgtgcgtc 600
caactcgttgc cggaggacaac gagctgggg cactcgccgc ggggtctgc ggcgcgtc 660
ccgcctctaga cgcgcgtcgc accttgggg ctgcgggtgc gcgcgtcgc 720
cgctctgcgc ctggctgcgc cggcacccgc tgcggcggtc agaggcccgag acgggtctct 780
gcgtgtggcc gggacgcctg acgctcagcc ccctgaactgc ctgttccgcac ggcgccttta 840
gccattgcgc gcaggccgtc gcccgtggg acctggccgt gtttacacg ctggggccgg 900
cctcttcctt ctgcgcgttgc gcttcctggcc tggcgctggg ctctgggttc accgcctgccc 960
gtgcgcgcgc cggcgccgtc cgcacccgc cccctcgccccc gccgagacccg ccagacccga 1020
accccgatcc cggaccccaac ggctgtgcct cggcccgccga cccggggagc cccgcggctg 1080
ccgccccaaac ctggcgccgc gggccgcgtt ggacgcgtcg aagcttttttccatgcctttt 1140
ccctccctt acactgtctc cggcgctcaa cggacgcac agacggaaat ataaatatga 1200
aaaacttgag tttctgttgc tgatgttttta aacctttca ttgtcttatta 1260
aaattgtgtt ttccattaaat taaatttttta ggaacccaaac ttggatttac ctctttccac 1320
tggtgccca cccaaacttct cccacccat gttttccat acccatggca ggtctttctt 1380
tccctggcccg cccgtagtttta gacgcacggg atggcccg 1418

<210> 87

<211> 3485

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5330327CB1

<400> 87

gccccgcctg ctgggggcca
aagcaatcg cccgttccag
ggccccagga gggcttcctg
agataagagt cccggctgca
aggaagactc ggggcgcgc
ctggtgccca gtgtggatgg
agatgggagc agacgcttgtc
gcgggactgc actcgagtgt
cggttctgt cccctgggaa
gcaggctca gcagtgcaca
agatcgcgaa tgctctgaaa
tgtcagacc cgaagcccca
aaggagttatc tigtgtgtca
accaggagga attccggct
gaaaggcaca ttccggagat
taactgcattc agtgcgcct
tgccccccga gcccgcgcgc
tgcggcggagg acatgtggct
atcaggatga aaggcttggt
ctcatcggtc tggccgcca
cagacctggg acgaagagga
aagggtacgg agttgggggg
gcccacttot tcaecgcgc
atcaactgtc agtggggat
cccagcccca cggcaagtt
cccccgagca ccccccagctt
cagcagggct tgcgtctggg
agcgcacccc ggggtcccag
ttcagctctg aggacccccc
ggcttccttc cttgtacctt
ccccgtcccc caggctctct
caggctgtct ggaggaaact
cacagcgca cagcctcgag
gaggacgggc ctggctgtgc
cccacggact ccacccagcc
gaccggctga agccctgcag
tgcatcttgg agagcttcgc
tttggggct cccagggtct
gctgtatcca gggaaactcac
cttcaagttc gcaaagctct
caggaatgcc tccttggaaa
cttgactttg agaaggctgg
cgacgaaagg ggtgcctgaa
tgccctgcca cgacgctgt
aagtaccccg gacagctgg
ggtgggtctgc tccccggagc
cacactacc tgcagaggca
aaggaaagtga cactcatcg
ctgcagggga agcggttggg
ctgctccagc tggacggcac
gcagtcagga acagaagctt
gagaacgacg caaggctcca
gaaagcatcg accagactgc
gccccggaaa ccacactgtc
aagctctgtc cagaaacaaag
ttttaaaaaa tccttggctga
cctggacata gcctgcactc
cccagagctc tacaaattag
actgg

gcatggaaatt ccccccggca
agcagcaggc ggcattccgg
gaaccccagc tccatggcg
ttatcagagc cggcaggcgc
aggctctcaa ggcgatcttc
aatttgcaga gccctagctc
tggcggcaat aggaaaatgt
ccagacctgc tcgtatggta
cacaggggcc gtgggggtcg
gagccggagg atcgc当地
atcctccaag atgtacggca
gcaggtgaag aagatcttcg
gcagggctgg ctggaccacc
ggctttcatc tatgacctgg
ggagtttcac atcgaagg
gcccgcacgc gcctccagca
ccgagagagc ctgcaggagc
catcgagggg gcccctggagg
gggctacga cgcctctgtc
gcgttggaaag ctcaagggtc
gaaggccctc atccccacgc
cctggctctg ctggctgtgg
gcccgcaggtc atcgttgg
gcagtgaaac cgggttggata
ttctatgggc agcaggaaagg
ccgggagaga tactacctgt
tggcccaagg gcccacccca
cctaagaagc cagagtcaagg
agacacggag accagcacgt
cggtccccac gcctccattt
gccaagatg gcccacccct
aggagggggag agccccagg
tagccagaaac ggcacagg
cctcgagggg gagctggag
ccagctccgg gagctggag
agcacggcag gagcacac
cttcctcaat gccgacttcg
cgaaaaggac cggccccctgc
agccgggtcc ccagagctgg
gctgcagaaaa ctggcttccc
atggccacag caaaacgc
caaggcaaca tccattgaag
gctgtggaga ggggtgcacag
gaaccagctc aagaaaacct
aatagegtgc cgcaggctcc
tgggctccca gaagaacaga
gagcgtctt gacccggaga
ggagtttcac tggcggggac
ccagctccag ccttcgtcccc
tccgagggtg tgcaggccgg
ccggaaaaag gctttctgt
gcaggccgca tgccttagcgc
cagcctgtgc cagtcgt
gttccgtgaa aaaggacgg
agaagtcttt tgccaggagg
tgagcacaat tctcata
tgggtatgg tgctgt
cttgcacagca cactgcgc
actgg

gagctggggag tgacactgac
gggagcgggg cccgctgggg
cctgcacccct gacacaggcc
accggcctcc ctgcaccaga
ccagagagcg ggaccaggcgg
gagtccggga gtcccccggcc
aggcagctgc aaggaggccg
ccacatgtc ggtgaggtt
tggggccggag cgccttc
ccatcaacag gaactccgt
cgctcgggaa ggggtcggt
aagcattgaa aagaggccct
tgtctggacg ccacaaagac
acaagcaaa acgcgtgt
tggatgagct gtacaggac
tgcagcgggg ctcccccgg
tggggcccgag cctgcacag
ttcaccttggg egagttcc
ccggagacca ctatgaggt
ggatcgagtc agatgacagc
tgcatgagaa cctggacatc
gtcagttgtac gtgtgacatc
acatcacgg gttgggtacc
ctgagagctt cctgtgtca
gctcccttga caactggaca
ctgtcttaca gcagccaaca
tccctagcta cctgtctgac
ccttccttca cctgtctg
cataactgtc gatggactcc
cggtccatc ctcagatgt
aagaggaggc tcggaggac
ctggaggccc gtttgcagag
tgcacccagg ctccctgtt
ggggcaac cggggacaca
cttccttca gttgtgagg
accaggtctt cgggttcc
cggcccgagag cctgtatgg
cttcctcaat ccccgatgt
ccccaccgtc atactgaaa
acgtgtctc gatgtacac
ctaattttt aagggtgg
ttctggagac acttttgc
caaggcaaca tccattgaag
ggtgtggaga ggggtgcacag
gaaccagctc aagaaaacct
aatagegtgc cgcaggctcc
tgggctccca gaagaacaga
gagcgtctt gacccggaga
ggagtttcac tggcggggac
ccagctccag ccttcgtcccc
tccgagggtg tgcaggccgg
ccggaaaaag gctttctgt
gcaggccgca tgccttagcgc
cagcctgtgc cagtcgt
gttccgtgaa aaaggacgg
agaagtcttt tgccaggagg
tgagcacaat tctcata
tgggtatgg tgctgt
cttgcacagca cactgcgc
actgg

60
120
180
240
300
360
420
480
540
600
660
720
780
840
900
960
1020
1140
1200
1260
1320
1380
1440
1500
1560
1620
1680
1740
1800
1860
1920
1980
2040
2100
2160
2220
2280
2340
2400
2460
2520
2580
2640
2700
2760
2820
2880
2940
3000
3060
3120
3180
3240
3300
3360
3420
3480
3485

<210> 88
<211> 3427
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 5532048CB1

tgaaaaag

3427

<210> 89
<211> 1438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 56002716CB1

<400> 89

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| ctccttactc | cacacagtga | gcgtggcaag | aggggggagc | gtaggacggg | ctttccccgc | 60 |
| catcctcatt | gtccttcctac | gggatcgttc | gtcgcggacg | aatactaattc | aatcgccgcg | 120 |
| gcatgatatt | ctgtttttcc | gaacaatctt | gaactgaata | tcctaattta | cagatcagcg | 180 |
| cacggcgctg | tagattgtct | ccaccccca | ggagactaca | accatgaaac | actttctcg | 240 |
| gaccgttatt | acccttcacgg | cgaccacccct | caccgcgcac | ggcgcgcggg | ttccggattt | 300 |
| cgatagcctc | accccgctgt | cctgcagcgg | cggtcgccgg | ggcggctcgt | gcgtcggcg | 360 |
| gccgtacatc | ggcttacact | ggctgtgg | ccagctgaaa | gacggcagcg | gcaccgcgaa | 420 |
| tgcgttcccc | accgggttcg | agcggatctg | cgacggcg | ggctgcgatc | caagagacag | 480 |
| cgtcatcccc | gtctacgcga | cgagcacgat | cgacgttagaa | gtgaacgcga | acctgcgcgg | 540 |
| cgttccccc | cgcttcgata | ccagcttccc | cccgaccgta | acggaagacg | tgaacacgat | 600 |
| ggcaaatatc | gggagcgtgg | agaatctcg | gcccggcagc | gcggggtttt | ccaggatcct | 660 |
| gegcgccttc | ggcggaaaagc | aaacctccgg | catgagtccc | gccgaggcga | gagccgtcac | 720 |
| gtctgtcaag | gtcttacccaa | tcgacgcacg | ccacgcacg | gtcgaggacg | agaatccgc | 780 |
| cggccccccc | gagctgtca | tccgttctt | ccgcggggaa | gaggcgtcg | gcccgcgcgt | 840 |
| gctcgagcgg | gacctcaaag | gcctggcgag | caaaacgcgt | gcgggattt | gcacgaagat | 900 |
| ctaagctaac | ccctggggcc | gcccggaaagg | gcccgccttt | ttattggaa | cgaaggaata | 960 |
| cgattgcccc | catgaagcaa | aaaatcgctc | ctagccacgt | cgccatctt | gttccctccg | 1020 |
| tccgcaaggc | ggccggaaagc | ctgcggcgat | tcgatttcga | aatcggtgaa | gaagagagtt | 1080 |
| tcgagggaaac | gaaggaaatc | tacgtgcagg | gaagcgacg | gaactccctc | ctgctcatgg | 1140 |
| agccaaaaaaa | aacgggctcc | taccggcgag | cgctcgagaa | aagaggcccc | ggcctccacc | 1200 |
| acctcgccat | cgacgtgtct | gacctcgaa | gcttcctcg | gacgctcg | ggatccggct | 1260 |
| ggttcctgca | ccccaaacagc | ctaaagacga | tccaaagatt | ccgcggggcc | tacctcg | 1320 |
| ggccgggatt | tccgggtctc | atcgaatgc | ggggaaaagaa | gaagctgcga | caggaaaaag | 1380 |
| acttcgttga | ggcggttacg | ctaaaattcg | acggccacg | cactgtgtgg | ataggag | 1438 |

<210> 90
<211> 1710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 60129797CB1

<400> 90

| | | | | | | |
|-------------|--------------|-------------|-------------|-------------|------------|------|
| agcgcccg | gccccccgg | gcctgcgca | acccagcccc | agccccagcc | ccagcctgc | 60 |
| gcccggagg | ggccggaaaca | gccccggcat | ccgcccccagc | cccagccca | gccccagccc | 120 |
| cagccccagc | cccagccga | gcccagccg | tggggggccgc | tggacgacgt | gcgttccctc | 180 |
| atcgctgca | cttcctggta | ctgacggcg | cctccgcagg | atgtcgcc | tctgtccgc | 240 |
| gtccccgtg | gttcttgcct | gccttgtctc | ctctccccac | gtccctgcgt | ctcttacacc | 300 |
| ccctccacc | cgaggctccc | cagagatagc | agagaattcg | aagaggcgc | cggggactgg | 360 |
| aaagaagtcc | ccgcaggggc | gccttcgcag | tctacacccc | agectgcctc | ccagcctaca | 420 |
| cccagaccca | gctcagaccc | tcgtgaccac | cccatccctt | tctccggctg | gtgggtcgg | 480 |
| gggcattccct | ctctgtcgct | ggcttccaga | ggcaggacag | gcctccctgg | catgtcccg | 540 |
| gtcatggaga | agccccgtcc | acagtgcac | tcccccata | cctgggggg | ctgtctcc | 600 |
| tccggatcg | taaggaggca | tcatcggct | gtgttctgg | aaccccaata | accctggcc | 660 |
| cccaaggcca | gcctgttgc | gaggaggct | atctgaccgc | cggtctggca | gaggagatgg | 720 |
| gtggcgact | cccaaggacacc | ccaaaggacc | cggtctctt | cccagacgcgt | cctaaggat | 780 |
| ctcttggaa | ctgatcttt | ttccctcattc | ccaggaaat | gacacactct | gtatattct | 840 |
| tttattttaga | aatgattttaa | aaaacattat | acaaaggctg | atcagttaa | aatgtgact | 900 |
| acactgaaat | gtgtgtatgt | cccccaggct | gaggggaaac | taggctctgg | ggccccca | 960 |
| gctttcccc | tctgtctgc | ctgtctgg | gtatggaca | aacagatgc | cacaggcagg | 1020 |
| agaatctgag | attggaaagcc | tctaggtcg | gcctctgg | cctggcccca | catccctcac | 1080 |
| ctctcgagcc | tgggctgcct | gcctccatct | cctgttatt | ctcagctgc | ctgccaggag | 1140 |
| ccaaacgggaa | gcctggcg | aggcggggt | gcctagacgt | ttcaagaat | gagagaccca | 1200 |

acctgaggag tggacaggga ccagaagtg ggggaaggga ggccaggaag aggtggatac 1260
 aggagacact tctcatctca tctcagaccc tagaggggtc cacagatggg gacacaagac 1320
 ccagccagcc cactggatgg cccggcaag taacaacctc tctgtgcctc atctgaggdc 1380
 acggtgagag ttaccgtcggt cctcccaggc cctaacacga gtttcatgtg agtggacagg 1440
 tgtgagctaa taaagtgcatt tgcaaatgtt aaaacactgt acaaaccat gaatcaactaa 1500
 tatctccgca gttgtccct gcctgtccca ggagcctgcc ttggccaaaa tgagaaaaac 1560
 caggatgtg acagggacac agcgaccac atggcacctc tgggacaaga gattttgctt 1620
 gagacagctc ccagggcagc aggagtccct gtctgtgcta caggtaagc cgaccccaat 1680
 cccagagacc acagggtcggt gggcaaggcc 1710

<210> 91
 <211> 753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6246243CB1

<400> 91
 gagcatggca gtgagccaaag gagacgggac cctctgcttt gtcttcgtc tggctgttg 60
 gcaagaaaact gagctccggc cgagaaccgt gattccagggt tcaccaactg aaataccatt 120
 cagtcaaaaa caggaggata tggctgaatt attagatgaa attctggtcc aggagattt 180
 ggatctgaat aaaacaacac cgagcgaat gccaagtgaca gcatcaacat tatcaacacc 240
 gttacatgtc ggtattgtg agaattatca agctgggtgg tctgagaatt accatgaatt 300
 attagagaat ttacaattt ctctggcat tgaggtaaaa atttcaatg atgaagccaa 360
 tgctaatgca aatctccatg gcgatccttc tgagaattat cgtggccac aggtgtctcc 420
 tggcagttag aagagtgtt ccagtaaaa aagaattca aagaacactc agtatgaaaa 480
 tctatccatt ctggaccaa tccttcaaaa tattggaga tcttcaggaa acatttcca 540
 taaagagcag cagaggacca ggcacacagag gaggagccaa ggcagtcaatg gaggccgcag 600
 ccccaagaccc cctgcgcagg agaggagcct gctagaaccc ccaccacca gcctccggaa 660
 cagggcactt gtgtgcacac gcccacgttc tctgaaccat tccacataaa ggaaaatcg 720
 ttattcacac gaaaaaaaaaaa aaaaaaaaaaaa aaa 753

<210> 92
 <211> 1780
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6804755CB1

<400> 92
 gcgaatcttt gtattgtccg gcttagtggaa agctggattt ccatatcggt tccagcaatt 60
 catctgctga gatgtgtgt tggttgaagt ctatgaagaa aatccagcct tggctgcgt 120
 tggtaaccgc ttgtcaggt gcctgtctg gcctgcagcc ctcgaaagcc gccgtgtgcc 180
 catcagagca tgggagcAAA aggtggccctc atgcataatggg ctgcgtatctc atcatctgcc 240
 tggaggatc tcaggcccc cacgatcccc cacgaggcaggat ctggcagccg ctgtcagag 300
 gctgactcg aatccacagg ctttttcccc agagcggcat ggggcggctg tactcgact 360
 actctgcata cctggacaat cctcggtttc tggacagctt cctcggtcgt aaggagcaca 420
 ggctccatgg caaagctact ggctctgggt ctgaggagag gaaggaggcg cccggcttgg 480
 ggcatgttcc tggtaggaa gccagggtgc cgctccagag actcgctgag gcacagtccc 540
 catctcagtc cagctctggc cgtggcagcg gcttccaggc tcacccagtc tcacaggagg 600
 ccaaggaggc tggcggaaacag cccaggggca gcaggagctg ttctcccgac cccggccctca 660
 tggctctca gtgagctctg cgaccctggg ccccccactt ggggtggccc caggctgggg 720
 ggtctccagc taggtatgtt ggcgggtgg gggccaggct ggggggtctc cagcttaggat 780
 gtgggtgggt gtggggccca gctgtgtggg gggaggctcc agctaagata taggggtggg 840
 gtggggccctg gctgggtgg ggggttccca gctaggatgt ggggtgttagt aggcccaggc 900
 ctcggggctc ttagcttagga tgggtgggtt ggtaggccca ggcctgggg tctccagcta 960
 ggtatgtggg tagtgggtggg cccaggcctc gggggcttca gctaggatgtt agggcagtgg 1020
 tggggcttagg cctgggggtc tctagctagg atgtgggtt gttgttagacc gaggccttgg 1080
 aggtgttccca ggcaggggca cagctgatatt gcttgggaag ggaggggct tgggtggagg 1140
 gctggagtag acagcaggca ggaggaaactt ccttggtag tggggggccc ctccaaaagc 1200
 acgcctgcga agggccctagg gcaccagggg acatgggagc attcttgcgt gtgtcagag 1260
 agggtgacat gggagaactg gggccagggtt ggtttaattt tctggatctt gtggccctt 1320
 gggttggatc gggctgggtt ctcaggcaga gctgtttctg cactgaggca gggactgcag 1380

gccagtgcg gagtgatctt gtgtgactcc atgctctca agtcttgctg gaaaccccct 1440
 ggctctcaga ccctcttc tgaaccagaa gtctctatcc tgccctctgc tgagggtcac 1500
 aggataagta tccataggtg taactcacac accagactt tgcaagggtg ccccccaccc 1560
 acacagaaga gttcctctgt gccccggc aggagcagcc cccccacatac acacacagta 1620
 cattcattca ttcactcaca cagtactttc attcatccac ccattcaa atgatcattca 1680
 ttcatcgct cactcacca ccacataaca acataaaaccc tcattcacac gagaaacacc 1740
 ctatgttaac cttggcagac tggtacgcta cgatcgctgg 1780

<210> 93
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6856852CB1

<400> 93
 gtctcaacgt gtcctctga ggatcagctt ggaacgtctg ctccggaaagg aggaccctcg 60
 agtttttca ctgcctgtca gcagccccctc tgccctctcc tgccccccgc ccctctctgc 120
 cagggcgctt ctgccaacgg ctggttatatt atatccctga gcagctgctg acagacagct 180
 gggagctggg aggccggctga cagggacgag cgagggcagag atgacagggt tggggcggt 240
 gctgtcaactc tttagcaggac tgctggcag agccccctcc ctttcaccca gggaggtgag 300
 acttagacag gctgtatggc catctggaa ggggcaccc tc aaacggcagg aagccagggc 360
 tgtgaacccc ggggacgggg aggccatgg ggttggaggc aaggactttc cccttggta 420
 cttttccag aagggggtgaa agcactgtcg gettaattat ctgggcactt gcccaggcga 480
 tctgtgctc acaagctgtc tgaccttggg taagtacacga actctggat tttggttcct 540
 ctgaggaagt gagatgggtt gatgagatgc tcgctgagtt 580

<210> 94
 <211> 731
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7482027CB1

<400> 94
 atgcctctgg ctttgaccct tctgtgctc tcgggcttgg gcgccccccgg aggctggggc 60
 tgccctgact gcgacccccc ggtgtggag gcctgggtc acctgcgtc cgccttcattc 120
 cccagtcgt tccagtttga gcagctgcag ggcgcgcggc gggccgtgtc gatgggcattg 180
 gaggggcctt tttccggggc ctacgcgtc aacgtgttt tgggaaagt ggagacaaat 240
 caactggacc ttgtggcgtc ctttgtcaag aacccaaacgc agcacttaat ggttaactct 300
 ctgaaagatg agcctctgt ggaagagctg gtgaccctca gggcgaatgt gatcaaggaa 360
 ttcaagaaag ttttaatttc atatgaatta aaaggctgc accccaaact ttggcgctt 420
 ctaaaaagaag aggtgttggc ctgtttacat tgccagagga tcactccaa gtgtatccac 480
 aaaaagtact gctttgtcga cggcaaccc cgcgtggccc tgcagtacca gatggacagc 540
 aaatacccgaa ggaaccaggc gctgttggc atcctcattt ctgtgtctt ggctgtctt 600
 gtcttcgttgc tcatcgttgt ctgggttgc acatacagac aaaaccgaaa actcctgtctg 660
 ctagggacg gtgggttggg ggttaaggaga aaggaaaata aatttaataa aattgggtgac 720
 aaatccaaaa a 731

<210> 95
 <211> 2758
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7493507CB1

<400> 95
 gggccggcggc cggccggcggt ggcggaggcg gacacattgg cgtgagaccc gggaggtacgt 60
 tggccaaat cattggccact tgccacatga gtgtaaatga tggcgatgc caagtatgtc 120
 ctctggcgat gggaaaagcg attatggct gcaagggtt tggcccaac cgccacttca 180
 aaaaaaaaaa agagaagaaa ggaatatttt cttagctgtc aaatcccttc cctagaggaa 240

aaaattaagg taaaaagcac tgaagttgag atcctagaga agtctcaa at tgaagccatt 300
gcttcctcg tagggAACgc gaatccccgt agctgaagga gaaggaaaaa tgatccgct 360
ttcttaacc ttcccaaat ttgcocctag aaccactcct attcttgacg cccagaatgg 420
tcagtgcctc acagaatgag gttctgcgg cacccctgga agaactggcc tacagacgg 480
cgcttcgcgt ggctctggac gttctgagcg agggctcgat ttggagtcaa gaaagctctg 540
cagggacagg tagagctgac cggtotctgc gagggaaagcc catggagcat gtctctcgc 600
cctgtgattc gaactctcta tctctcccc gcggagacgt gttggcagt tccagacctc 660
acaggaggag gcccattgtg caacaagcc tgcataagg tttcaactgtg gaaaaggacc 720
ccgagtgc aaatggacc aagaaggccc tcaggaaaaa tgaaaaccca agaggcccgt 780
tggcctccc agtggaggat ggtcccaag atgagagtgg ttcccaatc caccacaaaaa 840
attgactct tgcataaag aggaaagaa actcagcgc gaaaggtagc ttgtgcctga 900
atggatctt ccttcagag gacgacacgg agagagacat ggggagcaaa ggaggcagct 960
gggcagcccc gtccttgccc tccgggtca gggaggacga tccctgtgcc aacgctgagg 1020
gacacgaccc cggctgcgg ttggcagcc tcactgcgc cccagccct gagccctcg 1080
cctgctcaga gcctggagaa tgcctgcga aaaagaggcc ggcctggat ggcagccaaa 1140
ggccgcgtc cgtcagctg gagcccatgg cagcaggggc cgcacccatcc cccggccgg 1200
ggccaggggcc cagagatgt gtgcacccgc gcagcaccgc caggctggc cccgcctccct 1260
cccacgcctc tgcggatgca accagatgtc ttccctggc ggatcccag aagctggaga 1320
aagagtgc aatccctggaa gatccatgg ggtctaaatc catcggtct atccctggagg 1380
aagacgagga agacgaggag ccaccaagag tcctttata ccacgaacca ctttcgtttg 1440
aagttagaat gctagtctgg cataaacata aaaaatacc cttctggcca gcaagtggta 1500
aaagcgtcag gcaagagat aagaagcaa gtgtgtata catcgaagga cacatgaacc 1560
cgaaaatgaa aggtttcaca gtgtcttta aaagttaaa gcactttat taaaagaga 1620
aacagacgt tctgaatcaa gccaggagg acttcaacca ggacatggc tgggtgtct 1680
ccctcatcac cgaatcagg gtccgggttag gtcgcgggtc ttttgcggc tctttctgg 1740
aatattacgc ggtgtatata agtatactc tccggaaaatc catccagcag gacgtctttgg 1800
ggaccaagct tctcaactc agcaggggga gcccggagga gcccgtggg ggtgcccccc 1860
tggggcagag gcagccctgc cggaaaatgc tcccccggcc ctcgcgggg gcccgggacc 1920
ggccaacca gaagctgggt ggtacattg tgaaggccaa gggcgggag accacactgc 1980
ggccatcct aaagagcagg aagccatctc gtcggctgca gacccctcg agtccagcc 2040
agtacgtgac ctgtgtggg acctacctgg aggtgagg gcaagctggc ctgggtgtga 2100
agtacgtcga gggcgctcac caggagggtgg gggccaaatg gtcggcgc accaacggcg 2160
accgatccg gttcattctg gacgtcttc tgcccgaggcc catcatctgt gcatctctg 2220
cggtggacca ggtggactac aagacggctg aggagaagta catcaagggg ctttcgtgt 2280
gctaccgggaaaagaaaata tttgacaaatc agtccctgaa agacggaaac cggcggcgtc 2340
ggtaggggag cagccggctg tgctgtcagc gggggctggc ggtggaaatcg cttccagttgt 2400
gcatgagcgt gtctgaagat gggggctca gggggcacgt ttgcgtttgg acctgtctgt 2460
gcgttctct ggtggcagt cctgatttcc atacttctgg agaatccatt tcgttaacac 2520
tgaagccag ttctctttc ctggcagttt ttttcatttt atttttggca ttttttacaa 2580
gataccgttc gggaaaggct ttgaaagga cggaaagcgta ttcaactgtgc gcaagtactc 2640
ctggctgtgc tgggtttct cccgacgtgc acatcgatct cgtatgtgt gcatctgtata 2700
ttaaacgggaa gtttttaaga agcgtctgca gtgtatcatgg agtcccgaa gggggaaat 2758

<210> 96
<211> 1383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3075994CB1

<400> 96

ggagtggcca ttgtgtctg gtcgtggc gccatccccgc tgctggcga cagctccgc 60
ggcccgccgc actacgagat gtcggcgcg tgcgcgtatgg tgcgcaccc gcatggggcc 120
cgtggccctg gtcccgacgg cgccgtctgc tccgtgcccc ctttcccgcc aggcccaag 180
ggagagggtgg gccggcgcgg gaaaggccgc ctgcggggcc cccctggacc accaggttca 240
agaggcccccc caggaggaaacc cggcaggccca gggcccccgg gccctccgg tccaggccg 300
ggcgggggtgg cggccgtcgc cggctacgtg ctcgcattt ctttctacgc gggcctgcgg 360
cgccccccacg agggttacgaa ggtgtcgcgc ttgcacgcg tggtgcacca cgtgggcaac 420
gcctacgagg cagccagccg caagttact tgccttgc caggcgtcta ctttcgtct 480
taccacgtgc tcatgcgcgg cggcgcacggc accagcatgt gggccgaccc catgaagaac 540
ggacaggccc gggccagccg cattgtctg gacgcggacc agaactacga ctacgcccagc 600
aacagcgtca ttctgcaccc ggacgtgggc gacgaggatct tcatcaagat ggaacggccgg 660
aaagtgcacg gccggcaacac caacaatgtc agcacccttc cggcgttcat catctacccc 720
gactgagccg gccccccccccgttgcggcc tccggccatc tcccttgc tcaacccaccc 780
cctggccgc ccacccggagg cgccacccca cccttgaga gctggcggt ggggtggacc 840

cttccgttcc cggaggcggc ctaaatgggc gaaacttttg tgctcaaggg tataagtggc 900
 cgggaagagg aggagacccc gccagaggag cagagcgact tcggaggaa tcacccgac 960
 ccaagtgcgc gctggaccat atagggcag aggtcggtgc tttctctttt gtacagagat 1020
 ggggagcagt ttaatagcg ggactcagag gcccagaaa ccggaggaa gcccccgac 1080
 cttgcgaggg aaataacaga aacaggagga gcccattag gcaagagaag acattaaaac 1140
 agggtagtgc aggttctccg tcacaacttt ctctcgccac cctctcgat cctcgatcc 1200
 actttcaggc tcaggctcca gccttggcag cttctgtg aactggagga accagtgaat 1260
 tcttcctgg catttaaaac gcattctgtc cagtccttat tcccccatt ccggacttagg 1320
 ccctggggct acagctgctg ctgccttcc taataaagtg aggttgggg gataaaaaaaa 1380
 ttg 1383

<210> 97
 <211> 826
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2378119CB1

<400> 97
 cggacgegtg gggteggtag tctgtccgac cgtaaccatta ggcgcctggg ccggaggagg 60
 ggttttcagg gtcgttaggac gccgttggc accacgctcg gagaaggaca ggacaatggc 120
 ggccttaggg tccccgtcgc acactttcg aggacttctg cgggaggatgc gtcacctgag 180
 cgcggccacc ggccgaccct atcgcacac cgccggctat cggtaacctg tgaaggcttt 240
 cctgtcacat cgggtcacca gtgaaaagtt gtgcagagcc caacatgagg ttcatttcca 300
 agctgccacc tatctctgccc tcctgcgtag catccggaaa catgtggccc tacatcagga 360
 atttcatggc aagggtgagc gtcgggtgg gtagtctgtc ggcttgggtt gtcctaagtt 420
 gccccatcag cctggagggg agggctggg gccatgaaca tggagaatat ccttggatgc 480
 tgcatttcata ggagaatttga ataatttcta tcaatatgtt tttatcatta aatttttttt 540
 aagtttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
 aaaaaaaaaa caaaataaaa aaaaaaaaaa gggggccccccc ccaattttttt ggcggccccc 660
 cccctttttt aaaaatgtttt cacctttttt cccgcaaaaa tttttcccccc cccggtaattt 720
 ccccccaaat cggggggggg gggaaaagtt gttccgggg gggggggta ttagggggc 780
 accccacata tttttttttt ggcacccccc ctttttaag ggggggg 826

<210> 98
 <211> 1025
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2987418CB1

<400> 98
 gaacttacta ggtcatttca gggatttttc cctcacaagg gagggaaggg tacagaaaga 60
 taagttggct aagtatagac gcagacgggt aaactcaatc gcagagtgtc gacagagttt 120
 ctcttaggtt ctacagaaca gatctatgtc gtctcacate tcttgggtcag cagcgacagt 180
 gatgtcgaga atggatataac gagtttttgtt ttctggccct cgtataactc aaaaactcgt 240
 ttcaacttaa ataaattnaa cctttatgtc cacaggatag tcttagagat tggaaattttac 300
 tttttggccag ctcactatgtc atgttccatca aatggtaaaag ttctactttt aaagcccgac 360
 aagacaagat gagctctgtc tgcccgacgag cctttcagag gcattaaggg taagagagaa 420
 gcctccctcc agccctgttg aacacacaag tagatgaat tttagaaat tctttcacta 480
 tttaaatcag ctcttctgtc tcactacggc atgatagagg gtaaaatgaa gagaatgaa 540
 agactaacta catttttactt agaccactat atcgtctgtc cagtctatag ctttccattt 600
 ttgttccaca ctccttggat ttcacatgtt ggttccaaag ctcacccatggg agccactttt 660
 agacaacaaa ggacacagtc ccctttggag ttgttgcgtc cacttctttt gtgtcaaaga 720
 tctacaaaca ttgttggctgtt gaagtagggat ttatgttcaaca cacagcaaga aagttatattt 780
 tgtgaatata ctgcacccgg acatttacccg ctttacatgtt atttgacatgtt gaaatgtt 840
 tttccctcaa ttcaatgtt aagattgtt aagcaaaaggc ataccactgtt cagaaaatgtt 900
 atttacccttgc cacccttcaat tttttttttt tttttttttt tttttttttt tttttttttt 960
 taatcagaca tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1020
 ataac 1025

<210> 99
 <211> 1223

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4223862CB1

<400> 99

tggcttattt tttgttctta tggtttttt tctctttct tctgttagtt tcttcttctt 60
 tcctcgttgt gtctttctt ctctcggtcc gtttctagg tttctttatt catctttct 120
 ctttcttgc tctttcttc tctcttcctt ttgtcatcct ttgggtgtgtc gttgtgtctt 180
 tgtgtctttt gtgggttgtt ttgggttgtt ttgttgtgt tttccgggtg cgtgttgtg 240
 tggctggctt gtgtgttgtt ttggagtgg tttggctgggg ctgggtgtgg tcgggtgttg 300
 ctgttctttt gttgggtgtt gttttttt tttgggttcc cggaaatcat taatgcaggt 360
 taacctgggt tatacgaaac ggctcgagcg gctcgaggtt agccttctgg gcccacagcat 420
 ttaggaaagc tgggtatcac gagatggctt cagaaaataa ggctgtggta tggtttgtt 480
 acttcacaga gataggacca ctgtcgacg cacagctctg cggttctcaa agcttgggg 540
 tggagtgtctg ctgctgtttt tctctgtgc acatggctgc acatgttg ggaatagaga 600
 agtattttggg cagggagatg gatcagcagg gttccccgtt ctatcatcat ttcccttttt 660
 agaagttttt tcatttagag gtttgaatc ttgcaataaag eggtcatcct tgattnactt 720
 tggacttttt cccttaaatg tcaggcacct aattttaaac tttttctgg ttttacttct 780
 cctcccaaggc tattttgtcc ccagtccctt gttgcttggc agttgtttcc aatatacgcc 840
 ctccctgtttt ccattcagct gggatccagc tctagctcat gcccgttacc tggggcttat 900
 gtgtgttaaac taaaagaaggg aaggatgcgg ggcatgggtt ctcatgcctg taatcccgac 960
 acttgggag gctgaggccg gcatgcattt aggtcaggag atcaagacca tcctggccaa 1020
 catgtgaaaa ccctgtctt actaaaaata caaaaattag ctgggggtgg tggcacatgc 1080
 ctgtatccc agctactcg gaggctgagg caggagaata gcttgaacca gggagtcgga 1140
 ggttgcagtg agctgagatc atgccaccac actccagctt gggtgacaca gtgagagact 1200
 ccatctccaa aaaaaaaaaa agg 1223

<210> 100

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6046406CB1

<400> 100

tgaacccact tagcctctgc ccggggctga gcagggatag aatggcttc tccctcacctg 60
 tgcctggcc caactcatgg ctccctccac tcacacccca tcacccccc tcccccgcct 120
 catcctcgcc tgctccccctt taggactttt ggggtggatgc cccagcgctt gtgggtggc 180
 gcggggctgg ttcccacccat cggccctctgc tgctcagagg ccagagctgt gtggccctct 240
 ccaggcttggatcccttgc tggatgact cagtcacccg tacccttccat cagcagagg 300
 cacaggcaca tccctgtcca ccgaggaggaa aagacccacg cctgtccaaat gggaggggtgg 360
 gtttcagacc tccataaaaga tcgggtggat tttggacggt ctcgccttgg ttccagggtt 420
 aggtcgtccc ctccggaggat ctgcatttgc cttgtttctt gcaagaaaac ttgggaccaa 480
 ggaggatggc aggagaactg ggaaactggg ctgctggca ttcctcacttcc cccaggctt 540
 gatggaggt 549

<210> 101

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6743529CB1

<400> 101

gagccggcgg cggccggcggt acgaggcgcg cgctcggtt cccggcgccaggaggagg 60
 ggatgtggcg cgcggagggg aaatggctgc cggaaaacaag ccggaaaggca caagggaaagg 120
 cagacccagt ctctgtccctt atggagctaa gggggagacg gacattaaatc aagatgcct 180
 atggaaatttc agctggact cagtgtgtt aagagcggtt cccaaagtgtt attctgcgg 240
 actagcacctt actgtgttttcaacaccgtt ccacccatag aagatgtca tggaaacacgc 300
 aatagtagtc atgtaaaaat ctttttaccg aaaaagctgc ttgaatgtt gcccggaaatgt 360

tcaagttac caaaagagag gcaccgctgg aacactaatg agagatcatg atgcagccgt 420
ccttttggat ttcttttaa taatgtgtga cccttcacct ttgatcccct gacctgcatt 480
accttggtaa ccatttcatt ttttaattta atttcatttt 520

<210> 102
<211> 950
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7283809CB1

| | | | | | | |
|-------------|-------------|-------------|--------------|-------------|-------------|-----|
| <400> | 102 | | | | | |
| tagggacaca | ggtccccagt | atagaaaacac | ctcccccact | ccctggcggt | cctccatctc | 60 |
| tcacgtctct | ctcctccaaac | tccccactgg | cccttttgac | agggttagttc | tcagegtatg | 120 |
| tgcctccca | atctcacaga | ggaccctcat | ggtgaaagca | gcccttgccg | ctcatattgg | 180 |
| ggggccctgg | ctgccccatgt | atgggtctcc | ttccacttggc | actgttgtgt | ctggccccac | 240 |
| tcccttctt | gtcttttttt | ggctgttccc | actctgtctg | ttgtttttggc | ctcccttttt | 300 |
| ctttttctcc | tcagaacattt | gtttttccca | gggtttccatc | ttgggtcttt | ttttttccagc | 360 |
| tcattttgtc | catctctgt | atttttgtta | accctccccca | tatctgtccc | tctggcccg | 420 |
| cctctccgg | gatgcacccgt | cacatttcca | gtgttccgtt | atttttttgt | ccctggggta | 480 |
| ccttaaaccc | atcatgtgt | ccccctca | atccacccca | ctgttcctcac | ggagaccggc | 540 |
| tcctccactg | ccttccttcg | cctccca | tcagggtgtc | atacagtgt | gatgggtttg | 600 |
| gctctgaac | gtccccctcca | ttcctccaaac | ctccgcggcc | cotcccaacc | tgcctgggtt | 660 |
| agacccat | catctctcat | ctggaccatt | ggcgcacccct | ttacttagt | ctggggccacc | 720 |
| ttccatatacg | ctgttatgtcg | acatttccaa | aatttcagggtc | ttggccatct | acttcccttg | 780 |
| cattctggcc | caaataactgt | gttccccc | atcttcccta | cacccctgtaa | cagctgtttt | 840 |
| cttctgccaa | gcttttcttag | aatgtttttt | gttccctccag | tgttttgccc | ccctttgtct | 900 |
| ctcatctgca | ttccagaacc | cacccatcc | ggccggccgac | tagtgagtc | | 950 |

<210> 103
<211> 913
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7637563CB1

| | | | | | | | |
|-----------|--------------|-------------|--------------|-------------|-------------|-------------|-----|
| <400> 103 | ggccgtgcgtta | agactgcgtg | tgttaaggcaga | gggcctgtt | gggaacctgta | aaagggtgtcc | 60 |
| | aggcaaccc | agctgacccc | agcctctatg | cggcctctgg | gttggaaac | gctgtttctc | 120 |
| | ttctgtctgg | agaccctca | ggaggaaggg | tctcccgct | gctgggtgag | gggctgaagt | 180 |
| | tcggggcccc | ttgcctccct | ccctcaaggg | caaggcagcg | aatggcgctc | ggctgccccg | 240 |
| | ggtgtccctc | gtcttagggcc | catgcgggtt | ccctgggggc | ctcctgatgc | tggctgggt | 300 |
| | ctttactttt | ggggccctcg | ggccctgtgg | ggactcggtt | caaccacaggt | gcacacctct | 360 |
| | ctatggggcc | aagatgtggt | cttggagatg | cccaagatgg | gaccacccgg | gagaaactgc | 420 |
| | gccaaggggca | ggctggctc | tacgcggcgt | ttcttacaac | tgcacaccca | gccacgttat | 480 |
| | ttcaagggaa | atttcagtgg | aaagaacacc | cactccaaaa | atctacggtt | cctcactcca | 540 |
| | cctgtgtgt | cgtggatgtg | tgattacttc | aggcctgtga | gtttacagca | gaacataactt | 600 |
| | catgattctt | gccccgttcc | gagataaccc | gtcttggacc | ttgggggtgg | gaggagctgc | 660 |
| | ctttaaaacc | acaagcaaac | aaacaaaata | cacccaaaaac | aaaagaacag | aaacaacaga | 720 |
| | aataactgt | gagggtggca | gttaggttgt | ctgtatcaacc | tgagaaacac | gagggaaatcc | 780 |
| | tttgcgtgtc | agttccctga | aatgtcacat | ttcagaaaac | ctaagggtcaa | aagtatgaga | 840 |
| | cggaaggggac | cggaaagtc | agggataacg | aattctttt | ccagcacact | gccccgttaa | 900 |
| | tagtgaggcc | gag | | | | | 913 |

<210> 104
<211> 640
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7663814CB1

```

<400> 104
gggcctctca aagtgtggg attacaggca tgagccacca tgcacggcct ccaaacctcc 60
taatattaat atgaaaactt .cagcatcctt gagaaaaatct gagcaaggaa gacctttgg 120
gatgagtgaa ccgcattgttt tcacccgtcc ctctgcagct ggctgcaccc ctccctct 180
gccagagtcc tcttcagaa ccattccacta ccatcgaaaa gactcatcat cctcacatga 240
aacaactcac agaaaacaac tctatgtacc atacagttc a ttcttttcgg gttacaaact 300
atccccatc ttcccccatt cagaataatg ctgcacccat attttgtggg taaaatata 360
ggcaaacctt acttttgata catcatttgac ccaaatacaa taggaactaa catgaaaagt 420
gttcgttgtt ttgacatga ccgggtggcc aaatccaattt gtataattt tgactatccc 480
tcctttctaa ccaaccctct aacattttct atccatgttggg ttggatgggaa ttggaaattt 540
ccttccatata ctggctatct atgttagaaa actgtggcaa aacggacggaa tggagctgca 600
ccatctggta aagccatctt ttccctttgg aatttcctta 640

```

<210> 105
<211> 1113
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 8001939CB1

<210> 106
<211> 933
<212> DNA
<213> *Homo sapiens*.

<220>
<221> misc_feature
<223> Incyte ID No: 8191019CB1

cctttgactg aagtgggttc cagagtgtca cctcctttct tcctttggc ctggggtccc 900
 tgggtcttgc tggggccact ctctaaggcg acc 933

<210> 107
 <211> 1280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 919788CB1

<400> 107
 attcggctcg aggttaagaat ccctcatttg agcagacttg ttgtttgtt taggaatag 60
 acatacatca tccgtgtaat tttaagtatg ccagttatga atatggaaatg aaggataaaa 120
 ttctgtatgt ctccattaag ctccctgtg taaaataactc catggcaaag ttgctgctat 180
 taaaagtatg gagtttgatc ttggcttga tctaaacctt ttgatcttga aagaaggatg 240
 gagtagcaat aaagagaggg caagacatg ttctttaaa gaaatgtatg aaagttaaag 300
 ggatggtaa gaccggcaca gcaacaggac aacccgactc tccgccccgg cccgcctca 360
 ccggcaggcg gttccagca actgctgtatc cgatgtatg ggccttggc ggttggagga 420
 aaatcttggg gtatcgacata ttttataaa ccgctgcaga gggagctcg cgccggggcg 480
 gagtgccggc ttgcgcggcga agtgcgcgc gaggcacatg aatggattgg agtgaacccgg 540
 agaccccgaa acggaaagcg cagggagaag gaagaggtgt ttgaaaagct tcttccagac 600
 cagctgtct tgcttcttgc gcacatcttgc gacgacaaga ctctgagccc cgaactctg 660
 caaagccctcc agaggacata ccaccccttccag gatcaggatg cagagttcg ccacccgttgg 720
 tgtgaactca ttgtttaagca caagtccacg aaaggctaca aaagtgttgg gaggttccctt 780
 caggaggatc aggccatggg tttgttaccc tacggggagc tgatgttgg tgaggacgcc 840
 agacacgcgc agctcgcccc taggtgttgc gacggccaca aggacatg ggatagggtcc 900
 tcagcccccgg tggtggccgaa aatgttattt taacgaggaa agaccacatg aagattctt 960
 cattctgtctc ctccctagccct gggggaccatg gctcgaactg accctggaca tcaaaggagg 1020
 gattatgtgg ctgctaaagc catcgccca cagccctgtt cacgttcttgc tgcttcttctt 1080
 tcccagggc tggtcccagc caggcacaca caaaaggcag attctgttac acgcagccctc 1140
 cctcccttggc gggctgtcc tggccttggat ctggagtgtatc ctgtcttgcata ttttggatct 1200
 ctggggatgataatataatc aagaacatgg aaactgttgcatttacatgg ctgtcaacat 1260
 gctgtatggaa tcataaaacaa 1280

<210> 108
 <211> 697
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4758058CB1

<400> 108
 ggaggaaagt gaggaggggt ggaccaggcc tgggagggtc ctgggtgggg ggcgctaaggaa 60
 gaggaggatgc agtacagccca tggggctctg ggtgagaattt gcaggaaagg atggggaggaa 120
 ggaatggggaa ctgggggtggg ggcgtgaggc agcagatgttctt cctttgggtg actgtgttgc 180
 ggacacgggtg gtagatgggg agccggatgt tctggctttgc ctgtgttgc ggactcattc 240
 gatccccccagg aggggtggggatc gtccggggc tctgtcttgcattt cgctgaatgtt ttttggatgttgc 300
 ctagcaccctt ggaatgagca gtctccaggc catgaagacc ttgtccctgg tcctgttgg 360
 gggcccttggcc ctctctcccc accctcaggc tctgtgttgc tacagatgtt tggcggttgc 420
 ggaagggggcc tcttgcaggcg tggtctgttgc ccccttcttgc gatggggatctt gtgtctccca 480
 gaaagtggatc gtctttggca gtgatgttgc ggttggccagg gcagaggccaa ggttaagtgc 540
 ctgtgttggac tcccagatctt ctgtgttgc gggagacatc tgcaatgttgg tggccttggc 600
 agccggcaggcc ctctggggcc tttgtgttgc gctcgttgc accctgggtt cagttttctt 660
 ctggggcccttgc ctgtgttggcc accctcaggc atttttttgc 697

<210> 109
 <211> 723
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7499835CB1

<400> 109
attcaactcca gtgaccatcc ctgagatctt tttataaaaa acccagtctt tgctgaccag 60
acaaaagcata ccagatctca ccagagagtc gcagacacta tgctgcctcc catggccctg 120
cccagtgtgt cctggatgtc gctttctgc ctcattctcc tgtgtcagg tcaaggtaa 180
gaaacccaga aggaactgcc ctctccacgg atcagctgtc ccaaaggctc caaggcctat 240
ggctccccct gctatgcctt gttttgtca caaaatcct ggatggatgc agatggctct 300
gagcctgatg gagatggatg ggagtggtg agcactgatg tgatgaatta ctttgcattgg 360
gagaaaaatc cttccacccat cttaaacccct ggccactgtc ggagcctgtc aagaaggcaca 420
ggatttctga agtggaaaga ttataactgt gatgcaaagt taccctatgt ctgcaagttc 480
aaggactagg gcagggtggg agtcagcagc ctcagcttgg cgtgcagctc atcatggaca 540
tgagaccagt gtgaagactc acccttggaaag agaatattct ccccaaactg ccttacactga 600
ctacccctgtc atgatccctcc ttcttttcc tttttctca ctttcatc aggttttctt 660
ctgtcttcca tgtcttgaga tctcagagaa taataataaa aatgttactt tatacttaaa 720
aaa 723

<210> 110
<211> 1049
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2484647CB1

<400> 110
agccgcgtgc tcgaactcct gacccaggat gatccggccca ctttgcattc cccaaatgct 60
gggattacag gcgtgagcca ctgcacctgg ccccatctt ctacaactgg gaaaattctg 120
agttctggaa ccatctgccc agggatttgg gtcagagat ggtggccctt tctgatcctg 180
gtcttgcctt tggttatgtat tggcatcc ctgcctgtct tctatcatgt gcctcaggct 240
gttttttcc ctttgcagg ctgcaagccc ctgatatcg actaacagga gcacaacatt 300
gcacggctca aagacactac attagggtga aattttgttc ttctatcttc ccccttgc 360
tggaggagc cctcattcct gccccccccc tgccttactt gtgcaggca caggcagagc 420
ccaggtgtc cctgtgtt tctgeacttgc cgcacggc ctgcgtcgat cattttggca 480
agtctggaga attgaaggcc caggcccttgc ccccttatc acaatgcag gcccaggat 540
ggcaggcggg agctcacccg tggatctgccc agtgtcgtc ccagagcggg ccccaagaat 600
gttcaggcgt ggactcgcac tgcgtacat ttccatcgat ggcctgcattt aggaatggc 660
ggtgagcatc ctccatccat ctccagctgg ggggtggaggg tgcgtcgat cccggccgaga 720
ggaagccagt tacagaatca aaatgactca ggctggctc tgcgtcgat gtctgcagtc 780
ccagctgtc tggaggctga ggcaggagaa ctgccttagt ccaggatgtt gaggctgcag 840
tatgctatga tcatgcctgt aagtgccac tgcactccag ccaggtaac acagcgagac 900
cttgccttc agccagcaaa cttcgtctgt tgcgtctact tgcgtccaaa ggcagttcag 960
tgtctggccc cactgtctt ccagggtgtc ctccatccat ccgaacacaa ctggctgccc 1020
accggctggg cggcgtggct cacgcctgt 1049

<210> 111
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2587034CB1

<400> 111
ctgggaagaa gaggaaaaata tatttagacg aacaaccaga aatctatcc tattctctgg 60
aagagctgt ataagataag aaatacttga atcatgggtt ttttaatta cttgacctat 120
tttctctgtc ctgggtctgt cacttggga attgggttct ttgccttggc atcagctttg 180
tggttcctga ttgcacaaacg aagagaaaaata tttcaaaaattt ccaaattaa agcaattgtat 240
gagagatgca gcaaaagacc atcaatggcg aagattaaat ctcattctca gtgtgtttt 300
atttctcgaa atttctcgaa tggagatcc caattacagt tttgaaggct gagaagtcca 360

<210> 112
<211> 1466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2702991CB1

<400> 112

| | | | | | | |
|--------------|-------------|--------------|-------------|--------------|-------------|------|
| cagaaggggaa | aaccactca | gtggaaaggca | gccccccagga | gccttcggag | ggggaggcccg | 60 |
| gaggctgcat | gcggctgctg | ggggcccccgt | tccaggcggg | gtgggggacc | catcgctcta | 120 |
| tgccaagggg | cgttgttaggg | gcccgtgcct | cgcagtgtgc | ggtggtcagg | gctggcaagg | 180 |
| cctggggccct | gggttccaga | ccccctaggg | aggtggaaat | ggaggacccct | gacatcccta | 240 |
| cgtccccccgg | gaagctgcca | catgagccgg | ccccacccgt | ccaagtgtgt | gagctacact | 300 |
| tcagccgtcc | acgtccagcc | caggaggcct | ccgcctttccc | cttccttgtt | cttgattctg | 360 |
| tctcccaqat | ggcccggaggg | ggccctggga | aggcgtgggg | tggggggta | ctggaggagg | 420 |
| ggcctggggg | gggttcaaca | cagaatttgc | cctgtggctt | ccttcacccct | gggtcttgg | 480 |
| gctggcgtgg | gaacagcaag | gagcccccag | tccttccctt | caacaaccaa | tgtggcgtg | 540 |
| gcctctggag | gaggccggcc | gggaggcage | gggagctggg | cacctgattc | ttggcagctg | 600 |
| ctgagaaggt | gtggaaaggaa | aataaaatctc | cggaccccaa | aatcactcag | ccaagagaaa | 660 |
| aatcaagctg | ggaatttaggc | aaacacctgcct | cccggtttat | ttctaaataa | catagttaca | 720 |
| atgataaaagaa | gctacacgc | tccctcataa | ttagcgttca | ggggaaattcc | ttgtggacaa | 780 |
| aggacagacg | gaacttggaa | tcatccctt | ggggctcccc | tgagacaaaac | gtttatatga | 840 |
| ttggccctt | cccttactgt | ttacataaaa | atgcggattc | acttggccag | actcaatcgt | 900 |
| gtattcatgt | gaaggctgac | tgaaccaatg | tacggccatac | acatactgtat | cttgtgtctc | 960 |
| cctaagatgt | ataaaggca | actgtatccc | cagccaccc | aggcacctgt | tgtcaggacc | 1020 |
| tcctgaggct | gtcacagggt | catccttaac | cttggcaaaa | taaactgtgaga | ctggtctcag | 1080 |
| atatttgggg | ttcacaaaagg | cgtgagacgg | cagggtcttg | aggtctgagg | cgccgtggc | 1140 |
| gaggaggagg | gtcttggaaat | ctgaggcgcc | gtgggcgagg | aggagggcca | agcacacgcc | 1200 |
| agggtcagg | cctggggcagg | tggaaattgt | cagtcccccct | gcgtctgcag | gtgtgtctg | 1260 |
| tctggcttgg | gcagggttgg | gggaggaccc | aggccagac | catccttct | ccagggactt | 1320 |
| gcaggggccaa | ccggagatc | taggccttgc | ctgagttctgc | gcagggtgtt | gtgggaccag | 1380 |
| aggcacttct | tgggaatgga | ttctggaggt | gtcagacact | tcccttaactt | ttcacagcccc | 1440 |
| ggaggtgccc | agttctggga | aatgaa | | | | 1466 |

<210> 113

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2744736CB1

<400> 113

| | | | | | | |
|-------------|-------------|-------------|--------------|-------------|-------------|------|
| tttcacacta | tccagaaaacg | gaatgtatgc | acgtatggaaag | cctgtgggggt | cccatcacgt | 60 |
| cacgtcaagt | cacgtcacct | ggagttactt | ctgtattttct | tgctaaagca | gggagctttt | 120 |
| gagtccccac | ctgcgtgatt | ttcatgccaa | gggcacccca | ttcccaggca | gggctggctg | 180 |
| ccgtggggcgc | ctcgagccctc | ctcccttcccc | ctcatgtgt | tgggagtcg | tggggcctat | 240 |
| accacgtgcc | tgttgcagt | gtgtgtgtcc | gagggtccctc | ccatgcgggt | gccccctctg | 300 |
| tccttgcgt | gggttgggag | ccaggtccct | gtgcgcaggc | ccccactggg | acttgtggg | 360 |
| tgtgtccagg | catactgcgc | cgccccccac | cgccctcccg | gtccgtttt | ctgcacaaac | 420 |
| acagccgcac | tgagggccgt | ccaggtctgg | ggccgttcgc | ctaggggtgg | gaaccctgt | 480 |
| caagagggct | gtgggcacgt | ggatggtagc | aggctcagg | ggtgtggcc | agggccagga | 540 |
| tcccatggag | gtaaaaaaatg | gccccccgg | ctcccgccac | gttggccacg | tggatggcca | 600 |
| ccttctcagg | ctgttgcaca | ggttcgccct | cccagggaaag | acaggagatg | ctctggccct | 660 |
| tccctttccc | tgacggcggc | gtcatggctc | accacgggtt | caggcgttag | ctgcatttga | 720 |
| ctgtgaaccc | gtgattttag | gtatctgtgt | tttgcggggg | atgttcaogg | tccttggtccc | 780 |
| catatgttcc | ttttctgttt | ccttatacca | tgcgttggat | ctctttagag | gaatccccga | 840 |
| gttggaaactg | ccctgtgtgc | gtggattcta | agaatcctgg | cactgcctgg | cctcccttgg | 900 |
| ggtgtgttag | ggcgcgctg | tgcgacagag | ggacacggca | gggatttgcg | tgactggggg | 960 |
| atgacggggac | cccctgtccac | gctctgcac | agtcttcacg | gcccattggaa | gagctgcgt | 1020 |
| cacttatact | ctcacgttaa | cgaggctcac | aggcagatcc | tctccgttcc | acagcccttc | 1080 |
| ggctgggggg | tctggggcag | cctcagacag | gagcccgctc | ttgcggacgg | gaggacgagc | 1140 |
| gcaccctgtcc | cccgctgtctc | tcagcgagcc | tttggctgt | acttagctgc | attggttgcg | 1200 |
| agggtgttag | ccagccgcag | gcccccgctt | cccttggctg | cctttggggc | tgcaactgc | 1260 |
| tggggagggcg | tattcttctc | catcggtgt | atgttagtgt | gaaattagag | aaatctgggc | 1320 |
| aaatcttttt | tattttatgt | ttttttat | ttttttat | ttttgagaca | gagttagact | 1380 |
| ctgccttaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaagg | gggggggggg | 1440 |
| caaaaagggg | ggcgacccgg | gggggggggg | gggggggggg | cggggggggg | gcttaccac | 1500 |
| gcacgggggg | gaaaaactaa | cagaagtggg | gggggggggg | aaaagggggg | ggcggaaacat | 1560 |

aaatgcgaaa agccgggtta ccccggttat gatagaccgg ggacaaaagca tgaagagacg 1620
 cagacgagca gcaaggcagca acgacgagag tcgactacca gacacacagt ggcgcgacaa 1680
 ctacgtgaca cgacacagac aacagcatag gcggccgacc acga 1724

<210> 114
 <211> 778
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2915475CB1

<400> 114
 attctgatct ttctgcgtga ctgagcctgc tttgtgaaag ctcattctct ggcttgaagc 60
 catctattga ctcttgcac cagaagaata aaatgcacgc tccacaaagc cttgagtgcc 120
 gaccatcatg gacctctcca cctcatctcc acatgcttcc tctctatgtt ccacttctgc 180
 tgactttgtt aggtgtctca aatgtcaag actaacttcc tgtctcaggc ctttgctgtt 240
 tttcgaaaaa tgtttctgg acagggtgtt attcgttcc acaggctgga gtgcacttgc 300
 tgtttcttgt gtctgtatg ttcttttcc tgctctctc ctttttaatt ttatttttgc 360
 tatttactta ttatttagag acagggtctc actctgtcac gttaggttgc atgcagttggc 420
 gagatcacag ttcactgcag cctcaacccctc ctgggttcaa atgatctcc caccttagcc 480
 tcctgagtag ctgggaccac aggaatgtgc cacctggcta atttacattt ttttttttt 540
 tgggttagaga cagggctctgg tcatgttgc caggctggc tcgaactccg gggctcaagc 600
 catccttcca cctcggttcc ccaaataatggat ggattacaga ctatgatca ctgtgcctaa 660
 ccttttccat ctctttatgg atgaatttct taacctgggg tctcagctt tcagcatttt 720
 tccatctcat cagagatgtat ctttcctaaac caccaaatta aaatgatttt tttaaaga 778

<210> 115
 <211> 1974
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3040427CB1

<400> 115
 gagagccaga ggagagaggg tcctgactct cagagaggga ggaaaagaga aaaatggaaa 60
 aggagaacaa cctgtatcg tatgttcagg tcaaataatgtt gtgagaggct acagactgag 120
 gtcggatggag agagcaattt gtcttggctg gaagaatccctt gaggtgacat ttgaacctgt 180
 ccttggaaagg agttggatgg ggacagatgg aaccaggtagg agcggaggct gtggtagcagg 240
 aagaggctgg cagacgagaa gggggactgtt gtacaggccca aggcacttggg aggcgcactg 300
 ctccatgtgg tccagcaactg ccctcccagg actggactgtt cgccttgcgtt gggctgtctc 360
 aagatattga tgaccatggat atccctgttc agaaccctt tcctgtgtgg cctgctctgg 420
 gcctttgtg cccccaggcgc caggctgtgg gagcctgcag ccagcttctc ccaacccggc 480
 agcatggcc tggataagaa cacatgtcac gaccaagagc atatcatggaa gcatctagaa 540
 ggtgtcatca acaaaccaga ggcggagatg tcgccccaaatgg aattgcagct ccattacttc 600
 aaaatgcatg attatgtatgg caataatttgc ttgtatggct tagaactctc cacagccatc 660
 actcatgtcc taataggaga agggagtgaa caggccacca taatgtatgg agatgaactg 720
 attaacatata tagatgtgtt tttggatggatgatgacaa acaatgtatgg atacatttgac 780
 tatgtcatca ttgcataatc actgcgtatgg atgttatttgc ccattctctt gtttatatac 840
 aaatgtgacc cgtgataatg tgatggatca ctttagtaat gcaaaataac tcatttccaa 900
 ctactgctgc agcattttgg taaaaacctg tagcgattcg ttacacttggg gtgagaagag 960
 ataagagaaaa tggaaagggaaa gagaatggg acatctaata gtccttaatgt gctattaaat 1020
 accttattgg acaaggccctt gcttcaagca tctgtatttgc tctgtattaa tgctgctgtat 1080
 aaagacgtac cccgagactgg gaagaaaaag aggttactt ggacttacag ttccacatgg 1140
 ctggggaggc ctcagaatca tggcgaggc tggaaaggcac ttcttacatg gcagcaagag 1200
 aaaatgagga aagacaaaaa gttggaaaccc ctgataagcc atcagatctt gtgaaactta 1260
 ttcactatca caagaatagc atggggaaaatgg cttggcccccac tggatcaattt acctccctt 1320
 ggggtctctcc cacaacacgtt gggaaattctg gtatgatacaatgg tttcaagttt agatgggtt 1380
 ggggacatag ccaaaccata tcagcatctt ttcaagaata ttagataattt ggagctgatg 1440
 actcaggaac ttgactgtatgg tagatatactg ctatgttctt aatttttaattt cacatcacct 1500
 gaaaatggaaa acaacacgtt ttgccaatgtt gatgttttgc agtacacgtt aagtggatgt 1560
 aataccatgtt gtttgcctt gttgggttctt attccttca ggcacacatg gtcagttt 1620
 tgtaaagtccatc aatgattactt tgctctggc aagtggatat ttatggatgtt 1680
 atttcaaaatgc cacaacatgg cttatgtcagc ctatggccacatg agtctgatgtt tttttttttt 1740

gcctagccac agagtctaag attctgtatc ctctgacatt tggaaatgat acactgctgg 1800
 cttaagtat gactcttca gatttcagt attttataca agtactgcca gatccttata 1860
 ctttatgggt tttctggct tcttcaaact ggcgagaaga ccctgaattt gagtgtgttc 1920
 tctaatcaat agtggggtta gagtttctt tttatccac tcgggttcta gggt 1974

<210> 116
 <211> 990
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7499722CB1

<400> 116
 ctggaaagaa gaggaaaata tatttagacg aacaaccaga aatctatttc tattctctgg 60
 aagagcttgataagaaatattgt atcatgggtt ttttaatta cttgacctat 120
 tttcttgctg ctggctgtg cacttggga atgggttct ttgcttggc atcagctttg 180
 tggttcttga tttgcaaacg aagagaaata tttcaaaattt ccaaaatattaa agcaatttgc 240
 gagagatgca ggcaaaagacc atcaatggcg aagataaaat ctcattctca gtgtgtttt 300
 atttctcgaa attttcatac tgggagattc caattacagg aggagcaaaag aaaaaaggaa 360
 gcagcacata taaaagcaat taaagatcat tctaaagatg aaccccaact tgcaacaaaa 420
 aatatcattt gtatccctc agagaccagc tccacaacaa atcgcagcag tgttacatta 480
 agcttatcaa cattaccatc tgatttttat tacagccaaa gtatagaagc agctgtatgac 540
 tggtttctgt atgatcttct agtggaaagg aactctccaa tgccttctct cggggaaacct 600
 ctaatggaaa aagtattttt atacgttca accatccat tagaagaggg tactgaaagt 660
 gtactgaatg acactttatg accatcaaaa agatgactac attaaggaa aatgttcatg 720
 aagaaacaca gaggttggaa tataaaacct tcaacataat actgaatgac tttttcttt 780
 taaaaacctt tatacaatca gcttctgagt ctcttaacat gtccatgcta atattgctt 840
 ttttgttctt taccatagag cggctctact tcccttgctg gttcttattt cttagaaacaa 900
 aatttaggaag aactagatg atgtcatgaa cattaagctt aacttattgt atctcatcca 960
 aagacatattt aaataaaatg agtgtatgtc 990

<210> 117
 <211> 951
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 6776909CB1

<400> 117
 ggctcaaaacg attcggtgat ttgagctaga gaaaacgcatt tcacatcccc tccctcatac 60
 tggatccatgat catgaacttt atttccacaa ccttatataaa tggatctc tggaaagcat 120
 ggtccaaaaa ccaagggtgt tgcttagggg gacgccaaca ccgttgaacc tggctctg 180
 gcctggccgg gcctctggc acgctccatg ctccctggcc tggcttcccg cagcatggcg 240
 gagaggcga gtgaaggcgc tcttcaactc tggggcagg caggcaacac ctggccctgt 300
 tatttctgtc cttcaactc tctggaaatc agatgcccac ctcacacag ctggccggcc 360
 cggagtccgc ggtcacagaa aggatataaca cacatcttgg ctgcgattct gcaagtagcc 420
 gaaagagttt tttgaagccg aagataaaaa caccctttat gttcaatctg cagaagttt 480
 atcttaataa gagcaagtgt tactttatgt taaaatgcg atgcacatt gtttgggg 540
 ctcttagttt ggttacaccc ttttccatc attacattt aaaaaaaaaaaaaac 600
 ccggagggtg gggcgaaagca ggcacaccc ggactcagaa gaagcaaaagc taagcatgac 660
 ccccaataag aaacacacca ctgtgtgtg cacactgggg cgcctgttcc cttttcccc 720
 cggttacgtt tggagtccccc cttttggaa gaaaatccgc gccgttacca cagttactgt 780
 attcgtctg aataatggc aatataacacg tatttcaaaa gcaggaactc aacataactc 840
 gaagacattt tctgccatca attttccctc aatattcgc gaaataatc acacagatgt 900
 ttagagctt gcaagagctt gtctagcagg ttgtggaaat ctccaacaaa a 951

<210> 118
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223>, Incyte ID No: 7280438CB1

<400> 118

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gggaggcaca | tgactggat | tataattcg | ccccgggggg | aggggaggga | cggccgc | 60 |
| ccacctgccc | gggagggggc | gggagctgg | agctgtcacc | ccctccctcc | ttgcacccgg | 120 |
| ctcttctgga | ggtggggggc | gtcccggcc | ggcccccgc | ggctgctgca | gttggcgaat | 180 |
| gaggtcagt | gcgcgtcccc | cggtggccgg | cggccgggtg | ggagcagagg | gggcgtggaa | 240 |
| ggccgcggtc | cccccccttc | ccccctccac | cttctcccg | tctgggccag | ccccctggccc | 300 |
| gcccccccaa | ctcccaaggcg | gagtccagtc | cagccaggat | tgcucccagca | gggtgggttcc | 360 |
| tgtatgtggac | ccccccggcc | ggcccccggg | agggggtctgg | cctgtgttgt | gttggccgct | 420 |
| gaatcccccgg | tggaggggac | tcagaagtg | gcagtgggg | gaccacaaaag | gtttagagg | 480 |
| agtaagtgg | ggatactcgg | tctgtgggt | gtctctgtgt | tctctggagat | gggtggagag | 540 |
| gacagaggag | ggggccacagg | gtgctgaaca | cccacccgc | ccatcttaag | taccctgggc | 600 |
| atgatgggt | tgacacccct | cctgggctcc | tcacccctgg | ccagcagcca | gggagtgaga | 660 |
| ccctgcctcg | cctggcgtgg | gcccaggaa | ggggggccgt | gtgcggctga | gagttcggtc | 720 |
| caccctctg | gcagtgtcg | agggggctgg | agctctggcg | tctggcctag | tgacccttacc | 780 |
| tcccaggacc | aaggctctgc | ggtgggagtc | tcctgtgtcc | ccatcccagc | tgaagcgagg | 840 |
| gtgtctggac | ataggggtct | cgctgcagg | cctgtgggg | gagcaactgac | tcttggatgg | 900 |
| agaatgtgcc | aagggggtacc | cggggatgc | cctgggcctg | gcgggtggga | gtggaggggca | 960 |
| ggcccccggca | gttttggag | aagtgggcatt | ttgtctgggt | ttctttaga | agaggagagg | 1020 |
| ggtgtcttag | aagccacccct | ggcgcgcgc | tgccatggtc | ggcctctgtg | tgtctggctg | 1080 |
| ccccgtggcc | aggactgttg | actct | | | | 1106 |

<210> 119

<211> 2026

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7499809CB1

<400> 119

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| cggagctgtc | ccatttaccc | gaccggacgc | cggtgtatg | tggcttcgg | tgggtctgct | 60 |
| cctggctgt | ctgctgtgg | ccgtcctctg | caaagtttac | ttgggactat | tctctggcag | 120 |
| ctccccgaat | ccttctccg | aagatgtcaa | acggccccc | gcccctgg | taactgacaa | 180 |
| ggaggccagg | aagaaggttc | tcaaacaagg | aatccattac | attgggcgta | tggaagaggg | 240 |
| cagcatttgc | cgttttatct | tggaccagat | cactgaaggg | cagctggact | gggctccct | 300 |
| gtcctctct | tttgacatca | tgttacttgg | aggggccaat | ggccgaaagg | agtaccccat | 360 |
| gtacagtgg | gaaaagcct | acattcaggg | cctcaaggag | aagtttccac | aggaggaagc | 420 |
| tatcatttgc | aagtataaa | agctggttaa | ggttgtatcc | agtggagccc | ctcatggccat | 480 |
| cctgttggaa | ttcctccat | tgccctgtgt | tcagtcctc | cagacgtgt | ggctgtgcac | 540 |
| tcgtttctct | ccatttcctc | aagcatccac | ccagagctg | gctgagggtc | tgcagcagct | 600 |
| gggggcctcc | tctgagctcc | aggcagttact | cagtcatac | ttccccactt | acggtgtcac | 660 |
| ccccaaccc | agtgcctttt | ccatgcacgc | cctgtgtgtc | aaccactaca | tgaaaggagg | 720 |
| ctttatcccc | cgggggggt | ccagtgaat | tgccttccac | accatccctg | tgattcagcg | 780 |
| ggetggggc | gctgtctca | caaaggccac | tgtgcagagt | gtgttgcgtg | actcagctgg | 840 |
| gaaaggctgt | ggtgtcagt | tgaagaagg | gcatgagct | gtgaacatct | attggcccat | 900 |
| cgtggctcc | aacgcaggac | tgttcaacac | ctatgaacac | ctactggccg | ggaacccccg | 960 |
| ctgcctggca | ggtgtgaagc | agcaacttgg | gacgggtcgg | cccggtttag | gcatgacctc | 1020 |
| tgttttcatc | tgctgtcgag | gcacccaagga | agacctgcat | ctggcgttca | ccaaactacta | 1080 |
| tgttttactat | gacacggaca | tggaccaggc | gatggagcgc | tacgtctcca | tgcccaggga | 1140 |
| agaggctcg | gaacacatcc | cttctctctt | cttcgttcc | ccatcagcca | aagatccgac | 1200 |
| ctggggagac | cgttccctag | gtggagagt | tgactgcagg | atccccactc | accaaccagt | 1260 |
| tctatctggc | tgctccccga | ggtgcctgt | acggggctga | ccatgacctg | ggccgcctgc | 1320 |
| acccttggt | gtggcctcc | ttggggccc | agagggccat | ccccaaacctc | tatctgacag | 1380 |
| gccaggatata | cttccccact | tacgtgtca | cccccaacca | cagtgcctt | tccatgcacg | 1440 |
| ccctgtctgt | caaccactac | atgaaaggag | gttttattcc | ccgagggggt | tccagtgaaa | 1500 |
| ttgccttcca | caccatccct | gtgattcag | gggctgggg | cgctgtctc | acaaaggcca | 1560 |
| ctgtgcagag | tgtgtgtct | gactcagctg | ggaaaggctg | aagggcagct | ggactggct | 1620 |
| ccccgtgtct | ctccctttga | catcatggta | ctggaaggc | ccaatggccg | aaaggagtac | 1680 |
| ccccatgtaca | gtggagagaa | agcctacatt | cagggcctca | aggagaagtt | tccacaggag | 1740 |
| gaaggtatca | ttgacaagta | tataaaagctg | gttaagggtg | tatccagtgg | agcccctcat | 1800 |
| gcccattctgt | tgaaattct | ccccatggcc | gtgggtcagc | tcctcgacag | gtgtggctg | 1860 |
| ctgactcggt | tcttcatt | ccttcaagca | tccacccaga | gcttggctga | ggtcgtcag | 1920 |
| cagctggggg | cctctctgt | gctccaggca | gtactcagct | acatcttcc | cacttacggt | 1980 |
| gtcaccaccca | accacagtgc | cttttccatg | cacggccctgc | tggtca | | 2026 |

<210> 120
<211> 2169
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7499921CB1

| c400> 120 | ctggcagtgt | catggctgcc | cacaggtctg | caggcaactcg | gtacgcccgt | aacgcggcga | 60 |
|--------------|-------------|-------------|-------------|-------------|-------------|------------|----|
| ggtagctcg | tgcgtctcg | ggtaccagt | cgaatcatcg | ggctatccag | gtccgagatc | 120 | |
| ctagtctct | gtcggtctg | aggaggatgg | atccttctgc | ggatacatgg | gacctttct | 180 | |
| cacccttaat | atcattatgg | ataaacaggt | tttacattta | tttgggcttt | gctgttagca | 240 | |
| ttagccttg | gatttgttc | cagattgtca | tcaagacgca | gggcaagaac | ttacagggaa | 300 | |
| aatctgttc | aaaagcagct | caggatttg | tgacaaaatgg | ttatgtctcc | cttcaagaga | 360 | |
| aagacatctt | tgtgtctgg | gtgaagattt | tttatggttc | ttagactgg | acagcgaagg | 420 | |
| gattgcacac | agtttctgt | gaagcagtt | catccctgga | tctgcctgt | gcccattatta | 480 | |
| atctaaaaga | atatgtcca | gatgtatcatc | tgatagaaga | ggggcggaaa | aatgttgaca | 540 | |
| agtggctctg | gatgttggc | gcbcacatgt | tgatgagtcg | aggggagggg | gactgcgacg | 600 | |
| tggtaaaaag | caagcacggc | agcattgagg | ccgacttcag | agcatggaa | accaagttca | 660 | |
| tctcccagct | gcaggcactt | cagaaagggg | agagaaaagaa | gtcctgtgg | ggccactgca | 720 | |
| agaaaaggca | atgtgaatct | caccaacatg | gctcagagga | gagggaggaa | ggatctcatg | 780 | |
| agcaggatga | attgtcatcat | agagacaccc | aggaggaaga | accctttgag | agctccagt | 840 | |
| aagaagagtt | tgggtgttag | gaccatcaga | gcctaatttc | cattgtttag | gttgaagatt | 900 | |
| tggccaaaat | tatggatcat | gtgaagaaag | aaaagagaga | aaaggaaacag | caggaagaga | 960 | |
| atgtctttt | gttcaaggaa | atggggagga | atgaagatgg | tggaaaaga | gctatgataa | 1020 | |
| ctctgtctct | ccgagaagcc | cttactaaac | aaaggttatca | gttgattggg | agccactcg | 1080 | |
| gggtgaagct | ttgcagggtgg | acaaaagtcca | tgctccgagg | gagaggaggt | tgttacaaac | 1140 | |
| acacattcta | tggatttgag | agccatcgct | gcatggaaac | caccccgagc | ttggcgtgt | 1200 | |
| ctaataaaatg | tgtcttctgt | tggcggcacc | acaccaaccc | cgtggcact | gagtggcgg | 1260 | |
| ggaagatgga | ccagcctgaa | atgatcttg | aggaagccat | tggaaaaccat | cagaacatga | 1320 | |
| ttaagcagt | taaaggagta | ccgggctgtca | aagcagaacg | ctttgaagaa | ggaatgacgg | 1380 | |
| taaagcactg | tgcattgtcc | ctcggtggag | aaccaaataa | gtaccccgag | atcaacagg | 1440 | |
| ttttgaagct | actccaccag | tgtaaaattt | ccaggttctct | ggtcacaacaa | gcacaatttc | 1500 | |
| ctgcggaaat | caggaaacct | gagccggta | ctcagtgta | tgtcagttgt | gatgccagta | 1560 | |
| ccaaagacag | cctgaagaaaa | atcgaccgcc | cacttctca | ggattttctgg | cagaggatcc | 1620 | |
| ttgacagttt | aaaagccttg | gcagtcaagc | aacaacggac | tgtctacaga | ctgacgctcg | 1680 | |
| tgaaagcatg | gaacgtggac | gagctccagg | cctacgcgca | gctcgtgtcc | ctggggaaatc | 1740 | |
| ctgacttcat | cgaagtgaag | ggcgttacct | actgcggaga | aagttcagca | agcagttcta | 1800 | |
| ccatggccca | cgtggccctgg | catgagggaa | ttgtacagtt | tgtccacgag | ttggtgatc | 1860 | |
| tgatccccga | atatggaaatt | gcatgtgaac | acgaacactc | taattgcctc | ctgatagcac | 1920 | |
| acagaaaagg | taaaattgg | ggtgaatgg | ggacatggat | cgattataac | cgcttccagg | 1980 | |
| agctcatcca | ggaatatgaa | gatgtgg | gatcaaaaac | gttcagcgc | aaggattata | 2040 | |
| ttggccagaac | tcctcaactgg | gcattttt | gtgcggact | aagaggctt | gatccccagg | 2100 | |
| acacaagagaca | tcagagaaag | aacaaatcaa | aggctatttc | tggatgttga | gattatctga | 2160 | |
| tttcaagg | | | | | | 2169 | |

<210> 121
<211> 852
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 2705858CB1

```

caagaataca gacgtgatta aatggccatag aattacacat atgccttgc acaatgcca 540
tttcctgtat ttggtatagt actatagtta cataagatgt atccattaga aaaaatttag 600
tgagagttc acaggaccc tctgtattt caacctcatc tgattctaca attatatcg 660
taaaatact cttaaaatgt cttacagttt agaaaacctgg cagaaatctc cttAACCA 720
gaatcaagac taacatcaat ggtaaagtta tgttccatcc ttGAACCCCT tataactgtgt 780
cataagaaac gcacttcacc tctgtgctat cttccccct ttacagcag cagtgcgtat 840
atataatcg cc

```

<210> 122

<211> 1245

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3069892CB1

<400> 122

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ctgggttcaca | gtttggggaa | gagaatgcgt | aatgaacact | ggttggagca | gcaacaaaagg | 60 |
| tttcccttgc | atactgtgcc | tgccagccat | gggagcttag | gctcaagtc | tccccacctct | 120 |
| ttattgtctac | tgggttgtca | ccattctgtct | ggcgagaatg | gtagttagc | gcagggagga | 180 |
| agccacacag | tttcccacca | gagaaaactgg | actgtcccgg | catgatttc | atactttggc | 240 |
| acaacaccca | gaggatactg | accttgggcc | ttgatgtcac | tacaccagac | aatttgttga | 300 |
| actgatatac | tttacttgc | ttgactaaca | ttgtgttttg | ccaattggcc | aatttgtttag | 360 |
| tggccaaag | gactcaactg | ctttagattt | gaattcagta | aacattttt | atgtgattta | 420 |
| ctttgtgcca | gacagtattc | tggtcactct | ggcacaaaa | atctcattta | ataatcataaa | 480 |
| tatTTTtagaa | ataaagtgtat | atTTTTattt | taaaattatt | aaaccaaggc | cctctatttc | 540 |
| atgctgtggc | tctcctgaat | tcaaggagaa | atatgtttaac | gttaaaaaaaa | ataaaaattgt | 600 |
| atcacataat | gtgacataaa | gatgagggca | tcatcttttta | atagatatat | attattgtta | 660 |
| aaaatgttaa | ttaggtattg | aaaattataa | caaggacatt | tcaccagtga | agtgggtgaa | 720 |
| gggcagggaa | gttggggcaa | tgggaattgg | aatataatga | gccacattaa | gcatacacat | 780 |
| gtcaagtcta | gttctgaatc | ctgtggcagg | ccttacaaga | gagtccatga | gtcagagagg | 840 |
| tgccaaataga | accaggaaatt | tgcattttgtt | tggatgcaaa | ggaggagggaa | gtgttcaaca | 900 |
| tttgtcagatg | tagaagagag | gtcttagaatt | ataaaagactg | aaaatagccca | taggactttg | 960 |
| cagatgggg | gtcaatgtcg | accttaccaa | gagcccccttc | catgaaatgg | aaaggccac | 1020 |
| aaacagaaat | gcagaatgtag | ggatggatgt | gaagggaagg | aaagagagaag | atttgttagt | 1080 |
| aatagtccag | tccttccaaa | ggtgtgtctg | ggaagaagag | tggtttctag | agggaaacaca | 1140 |
| tctgttaagga | agaggttattt | cttcaagttt | aagggaaatgg | agcatctcta | gcataactac | 1200 |
| tggagtctga | aagaaaaaggg | agagaatgtt | ttgagatata | ggaag | | 1245 |

<210> 123

<211> 1924

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3069586CB1

<400> 123

```

cccgccggcga tcctgttgc cctccaaat ctattgttt agattgcaga gccaagcct 60
ttcattgtat tgagtgtcat cacaagattt aatgagtaca gtaaaagtctt acagttcaag 120
tattttatgg tccttcattca gggaaatggcc taaaaaatgg atcaagggtt tcttaggagct 180
attattgcac tgtttacccc aacaacagac cctgaaagctg aagaagacg gacaaggta 240
atccaacaag atattgtatc tctaaaatgcg gaattaatgg agacttcaat gactgtatag 300
tcaattctta gtttttttgc acattttccat attttctctg tgaagggtca tttaggttt 360
tctttgggtt ccggaggtga agaatcagac aaagaaaaac agaaaatgtt tgcaaggatcat 420
tctgtcaact tgctgttcaa aagcataggt gctactctga ctgatgtggg tgaccctata 480
ttcaaacttg cttattatga aattcgatat cagttctaca agagagatca gcttatatgg 540
agtgttgtt a ggcattacag tgaacagttc ttgaaacaga tttatgtcc tttatgggg 600
tttagatgtac ttggaaaaccc atttggatta attagaggtc ttgtctgaagg agttgaagct 660
ttattctat aacccttcca ggggtctgtt caaggccctg aagaatttgc agagggtta 720
gtgattggag tgagaaggctt ctttggcac acagtaggtg ttgcaggcagg agttgtatct 780
cgaatcaccg gttctttgg gaaaaggttt gcagcaatta catggacaaa ggaatcatcg 840
caaaaaagaa gagaagaggat gatgtcgacag cccagagatt ttggagacag ctggccaga 900
ggagggaaagg gctttctgcg aggagttgtt ggtggagtga ctggaaataat aacaaaacct 960
gtggaaagggtc ccaaaaagga aggagctgt ggattctta aaggaattgg aaaagggttt 1020

```

gtgggtgctg tggcccgtcc aactggtgga atcgtagata tggccagtag taccttccaa 1080
 ggcattcaga gggcagcaga atcaactgag gaagtatcta gcctccgtcc ccctcgctg 1140
 atccatgaag atggcatcat tcgtccttat gacagacagg aatctgaggg ctctgactta 1200
 cttgagcaag aactggaaat acaggaataa atgtttccta aactactact tgatttcata 1260
 cttaaaaatc aaaacaaaact gtgggtttaa ttgactgtgt gtgaattcca ttgtcaattt 1320
 taatgaaatt ttctttaaaa ctctcacctc catctgaact tttcatagta gtgggattga 1380
 ctacaaataa aaacttggg tattcctggt aatactgtcc agaaataaga gattagtata 1440
 aaatattaaa ggatgcagag aatcaactct cttctgcgtt taatagatga aagcctttat 1500
 tgagtcaga agcagataact gttactatca tttcgaaaat ttatcttat ggtgttcatg 1560
 tgcatttcag gtaaaattga aaaacaggac aattattatg tccaattaat atgtttatgt 1620
 ttgtgagtct ttagatgtgga attacatagc tttctgtttt acaaattggct ctaaatttgc 1680
 ttaagttacg ggactattac ctggagcatc tgctttaata attgaattgt cagttgctct 1740
 ggcctgcct tagacctcaa gtaataaaaat agttggcaca tgaattttga ggatatgttt 1800
 cctttccct cttttccta ttaacccttg gtactgttgc taaataatga tagccathtt 1860
 ataattatgt tatatacatt ttcagccttt agcatttctg ctttcaaaa attgaatctc 1920
 ctg 1924

<210> 124
<211> 559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7500104CB1

<400> 124
 gtgacaccag agcctcctgc aagatgccttc tgattctgct gtcagtgcc ctgctggcct 60
 tcagctcagc tcaggattta aatgaagatg gaggagactc tgagcgttc atagatgagg 120
 agcgtcaggg accaccttg ggaggacagc aatctcaacc ctctgctggt gatgggaacc 180
 aggatgtatgg ccctcagcag ggaccacccc aacaaggagg ccagcagcaa caaggtccac 240
 cacccctca gggaaaggca caaggaccac cccaaacaggg aggccatccc cctcctcctc 300
 aaggaaggcc acaaggacca cccaaacaggg gaggccatcc cctgcctctt cgaggaaggc 360
 cacaaggacc aaaaaacacag ggaggccatc agcaaggatcc tccccacact cctcctggaa 420
 agcccccagg accacacctcc caagggggcc gcccacaagg acctccacag gggcagtctc 480
 ctcagtaatc taggattcaa tgacaggaag tgaataagaa gataacagtg tttcaatgc 540
 cgtaaaacat ggcacatcatg 559

<210> 125
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7500203CB1

<400> 125
 ccagacaaaag cataccagat ctcaccagag agtcttaggg gactacagaa gaaaaaaagac 60
 aagaggcagt aggtatctg tgcctcctcc cgctgaccac acttccttta gtgacccgat 120
 tgcctcctca agtcgcagac actatgtgc ctcccatggc cctgcccagt gtgtcctgga 180
 tgctgcttcc ctgcctcatt ctccctgtc aggttcaagg tgaagaaacc cagaaggAAC 240
 tgccctctcc acggatcagc tgccttcaaaag gctccaaggc ctatggctcc cctgctatg 300
 ccttgtttt gtcaccaaaa tcctggatgg atgcagatgg ctctgagcct gatggagatg 360
 gatgggagtg gagtagcaact gatgtatgttga attactttgc atggagaaa aatccctcca 420
 ccatctttaa ccctggccac tgcctggatgg tgcataaggac cacaggatcc ctgaagtgg 480
 aagattataa ctgtatgtca aagttaccctt atgtctgca gttcaaggac tagggcagggt 540
 gggaaagtca ggcctgagc ttggcgtca gtcatcatgt gacatgagac cagtgtgaag 600
 actcacccctg gaagagaata ttctccccaa actgcctac ctgactacact tgt 653

<210> 126
<211> 1649
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 4843802CB1

<400> 126

gtcaacgttt cacgtcccc aaccggctc aggtaaacat ttgacctaca gtgtcaagat 60
 gaaattgact ctgcaaccac acaggtgagt gaaagaaaac attggccgca gcagggttgt 120
 ttccacagcc cggccccagg cccaggtcat ggtgcttaga ggaggagct cagctgagaa 180
 tgaagggtgc cagggatgt tctccatccc tgtcatgggc agctgtcg 240
 ccctgggaag ggcaggagag ggcacactcg tggtcggttg caagaagcca ctgggtcagc 300
 agatcccccg gcccttcccc acatgttcaa cctcttggcc tctgggtctc ttctccacc 360
 tggAACATC ttcctccaga aagccacgtg gtcactctc tgacttctc caggaagtga 420
 gcttaactac cggccgtcc ctgaccactc aggataaaaag tgtgcacgcc ctgtccctc 480
 ctcccccaac tctggccctg cttctgtatc tccccgcaca ctgctggta ctctttatc 540
 atctgtctcc ccaagtgtca gcttctgcag ggcaggggca gcatctgtct tgcatgtgc 600
 tctaggccct cacacacagc aggtgtctaa taaatatctg ccgactggaa tgagtgaga 660
 atgccaggct cagggttctg gtatgtctt aaatttggtg cccttggcc agtaacttga 720
 cccttctaag catggattct acatgttca gtttggccag tgagtctagc ctttgggtgt 780
 ggaaggctcg aacacaaaaat gtgttgcg cggccctgt gtacagggtc taggtgccag 840
 ggttgcgttgc acgaggagaa gatcggagaa cgaaggccac ctgtgtgcg 900
 caggcgaaag tggatgtgt gtggagggt gtcattcac gtggggcccg ctccatctt 960
 cgtggAACAG ggacacttct catgctccc ttcttactct gggaaagga tttagagaaa 1020
 ggaatccaag ctgggtacag tggctcacac ctgtatccc agcacttaga gaggccatgg 1080
 tgggagaatc tcttgcgttgc aggaatttca gaccaggctg ggcacatag tgacacttca 1140
 tctctacaaa aaaaaaaaaa aattaaatta gacagccatg gttgcacatc accttgcagt 1200
 cccagactt tggggaggctg agatggagg atcgcttgcat cccaggaggt caaggcttac 1260
 agtgaggccat gattggcacc acggcactcc agcctgggca acaaaggcg accctgtatt 1320
 aaaaaaaaaa acggggcgcc cgccgcgaat aagtggagct cgctcgac 1380
 ccggggagaat taaaatcccc ggacggggac ctgcaggcg tggcccccagg gcacagtggg 1440
 ggcgatggaa tactcagaga tcggggccgg gttccccccc aaaagggggg acgcgtata 1500
 aaatttccag taaaggccag gggtaacccg ggcaattaaa gtggaccgc gagaacgca 1560
 tacaacagca caacgaggca cgagacacgc acaaacagaa agagcccgaa agaatggaga 1620
 accaccaggc ccaagaacgc acgacaaaag 1649

<210> 127

<211> 1255

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5877522CB1

<400> 127

ctggccttaa tatataacca ccatcagaat gattgcatta atacattgtt ggtttttttt 60
 ttattcaatg aagtactttt aagccgtgg ctcatttggaa attgaagata taagacgaca 120
 ataataacca tccctcccc atggccatgc actatcctga ctttggatt tgcattccc 180
 atgcatgttt tcacacatctt acaacatgt tatccaaata agcaatatgt ggtgtttttt 240
 atgagggtttt gaagtgcgtt ggttgcac ggttactacg ggactgaatg aaggaggatg 300
 aacgcagaaaa tgaaaactt aaagaaactt tttttaaaaga aggggtcggg ggaagaagaa 360
 gaggactccc tgcttctact gagcaaaaggc agcagctcg agcttctaca gccccttgc 420
 tttactgggt agaaaggagca gggaaaggaga ggtatgtt ggtcagtcg ttaattgtatc 480
 acagggtcac attattgtca acaggctca gatgtaccta atcacaagaa aactgcgttt 540
 agggagtggc tggccctccgc attccttctg ggcggcagat gcagttgtc agtttgccaa 600
 cattctgtcat ttatgagaac agtttgcgtt ttacccatgt agcctccagg atactgagtt 660
 gatcacgacc ctcacttctt cagccgtcaa cattgaagct ttatataaat gcactatct 720
 gtcgtgtcc tcccataatg tgcttcttcc actcattgtt aagtgtctga gatctattca 780
 tggacata tgcactgtt tgcatgc ttttactgc tttaaactca ccattgggtg 840
 aatacacaatg ttatctgtt tttcttgcat gggatgggg cttttttaaa ttatgagac 900
 tttttttttt tttctcccca ggcttggctt ggactcatcg tcaacacgc cagcatcatc 960
 atcatcacca tcatcatcatc atcatcatca tcatcatcatca caatggctga 1020
 gcccctcaactg tgcttctgg gagccgggct cagcttcccg cctccacggg cactacagga 1080
 gggaaacaaaag tcacctgtca ggatcatgtt gaaagaggcc aagggtggat ttaacccagg 1140
 tatgtgtatg ctgaagtctg tgctcttaac cactctggcc ttctgttcc tggatccaga 1200
 agagatggaa cccacaggcc accgataaaa gtctccaacgc tgtaaaaata tcctg 1255

<210> 128

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 617491CB1

<400> 128

caccagtaca ctccagcctg ggcaaccgga gtgagaccct gtctaaaaaa aacatgaata 60
 aataaataaaa taaaataaaa aataaataaaa taaaataata agaagagcct tc当地agcag 120
 tatgaatgg ccaatcccccc tc当地ccctgc tgctccctct cctgtatcg tttcccttc 180
 cc当地ctctcc tt当地tggaa cagccacagc gactctccaa atcatgacac tcaaaaatgcc 240
 acttctaaaaa agaacatcag ggttggtgcc tctgcttctt ct当地attgac ct当地cccttc 300
 tgcccttccc tgactcgctt ccccttctt tttggatgta attcttcca gc当地cccacac 360
 tc当地ttgaca gaagatgaaa aatttgtatc tctgaatccat atatctgctt gt当地tatgatc 420
 taaaactttt tt当地gtcaac aaggtaaca tattccctcat atttcttcat ggaatgttta 480
 aaacgtctaa aatacacaact gccactgaga aagtaaattc atgcacccctac aaagagaaaag 540
 gaaaggacag cc当地tccacca tt当地gactact gagttccac ct当地caccctt cgacacttat 600
 tagaacttcc atgaaacacgt gt当地acaactc tt当地cttcat caaaacaaaac agaactttct 660
 tc当地ttgtatg taaaaggatg tt当地ccctct acaccgaata aggatgca cagttccaaac 720
 agttattgtt tacatcactg accatatttag tc当地ctctca aaatccatca taggtccacc 780
 aaatattctg tt当地cttaag actacattgt aagattaaac tccaacaaca tgatatacaca 840
 acaaataatgaaat ggagagaaaaa ataaaatgttgg tgagcgtata atattaatgt gt当地acatatta 900
 caaatatgca aagctactac cacacttgat tt当地taattt atcatgaggc caccgacacct 960
 tt当地aaaaat atattnaaaaa aatataaaaaa tt当地tttaa aaataaaaaaa aaaaaaaaaag 1020
 g 1021

<210> 129

<211> 1167

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6289901CB1

<400> 129

agttgattac cacctagctg tttatacata tt当地tgtttctt cttggcatga gcacacagta 60
 acaaataccaa taacctataa cgctgagaaa tctaacagaa aatatcagtc tt当地gtttaca 120
 cgcaacacaa gaagagcaca gggcccacac tgcttgggtg gc当地agccaa aagtccaccc 180
 tc当地tctgtt gaatgactgc aaagctgggc tt当地tactcc cagatgacag ttttctct 240
 cactcactt caccacccca cacagagcag aaagcaggaa ggttccatcg cccgactgta 300
 cggttaagttt tgggaggcag tc当地ggcaaca tt当地tgggtt ct当地tataat gatgtgttat 360
 gcttttggc ct当地cagacgt tc当地gttggc toagatctga gacatattca aaagttatgtt 420
 tgcatcttgg cc当地ttgtttt atgtatttcc tt当地ccctag ggcattctac aaagcatttc 480
 caaaaaggct ggtccctgcc ccttaactgg tt当地cttcccttcc tggcaacacgc attccagctg 540
 gactttggga aatctcccta ct当地cttcaaa acaatttgtt ct当地ccctggc tt当地ttttag 600
 gtttccatgt agtctatgtt gtcactccac coaatgttctt ccaaggaact gattatgtctc 660
 aggttagctg gtgacccctag aactctgacc agtataatgtt actgtgacag aaaggaatgc 720
 atccctgttga ccaatcccccc tgctgatag cacagacaaac aggggtacta caaaagctcca 780
 tt当地cttagga gaaacagcaca gc当地ctgtac tggctgagac atagaaactt caaaaacaat 840
 tcaaatagtcc ataccactgc ccaaggccc atgatgttttctt atctgttgtt gtttttattt 900
 atagattttac agaaataatag agatattttgg cc当地gggtgcgg tggctcatgc ct当地aatctc 960
 agcactttgg gaggcagagg cagggtggatc acctaaagatc gggagttga gaccgacctg 1020
 gtcaacatgg tggaaacccca tctctactaa aaataaaaaa attagccaag cgtggtagca 1080
 ggc当地ctgttga atccctagctt ctccaaaggc tgaggcatga gaatcacttgg aacatgggag 1140
 gtggagggttgg cgagtgagcc gaggatca 1167

<210> 130

<211> 1045

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6817709CB1

<400> 130

| | | | | | | |
|-------------|--------------|-------------|-------------|-------------|-------------|------|
| aaatggtaaa | aaacaaacaa | caaccaccac | caccaggcacc | aaaaaaaaaac | agagctggga | 60 |
| tcacacacac | ctggcttcaa | tccctggttt | catctctgccc | cttaactaaa | ccagctgtgt | 120 |
| gactttgggc | aagtgactga | actctctgaa | actccatttc | gtcatgcatg | ctggggatgg | 180 |
| ctaacagtag | tccttacctc | acagagacac | tacgaggatt | aatatgtgaa | atgcatggca | 240 |
| catgaccaac | cttagttaag | tgtctgaatg | tgcggtgatt | ctatcagtc | ggacattgtt | 300 |
| ggttgtctgt | atcagaacc | cagctcaacc | tggcttagag | cagaagagg | cgccccatgc | 360 |
| caaaaaatct | gcagtcatct | gattggccac | cctagtatct | agagttggag | tgaggtcgat | 420 |
| ccactagtcg | gcccggaaagcg | agatctcca | aggaaaactg | gagcatagta | gccgaaaaaa | 480 |
| gagggatgga | tactgggcag | cgacaaaacag | cagggtcccc | catgactaac | tgttaggtggg | 540 |
| aggtgttagaa | aggcagagggc | cttcacccacg | gccccaaacgt | gagggaggtg | gtgctcagcc | 600 |
| acccctctgt | ggccttaccc | ttcttccatg | aaaatgacct | ccatattctg | cctccctgtta | 660 |
| tcaggggagg | cctggccaga | agagcccaag | aaagggtttt | ctgcccctgac | cctgactgac | 720 |
| cttgagcttg | ggcagaccccc | tctccctctg | ttggccatt | ttcccatctg | taaaatgggc | 780 |
| tcgttggagg | agatgtatccc | tgaggctctgc | tcaagctcta | actgtAACAC | aggcagcaac | 840 |
| tggtgtttat | caagcctgtt | gtgtctgtgg | cccaggaaaa | ccaaagacgg | catgggtgt | 900 |
| cacacctgca | atcccagcag | tccactgtgc | acacagtggc | ctgagcactc | ctaccatgtc | 960 |
| tctgtctcaa | accttcaaa | aggctcttatt | gcattcagag | taaaatggtt | aaagaaaaat | 1020 |
| caaacaatacg | gatctcccca | cccccc | | | | 1045 |

<210> 131
<211> 762
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 6849312CB1

```

<400> 131
atccattga gtatatgtac cacatttctt tatccattca tctgctgatg gatacttagg 60
ttgtttcttt tcttttgtt ctttaagat ctttttgtac tttttgc当地 tgcataaaatt 120
tttatgtagt aaaatataatt tatattttct tttattatgt ctaaatttta gtcatagttg 180
gagagacttt cattgcactg aggttagaga ggaagacact catgtttctt gcaattatgc 240
atacagtt gatccctcatt tttttgtaga cttgggtttt gtatgtttac ctcccttgtca 300
gagtttattt gtaacacccca aattaatgtat cttgttgggtt tcattgttcat ttgcagagat 360
gtcagagaca gtaaaaatatg gagtcaccaa tgtgcatgtt cccatctgaa gctgataaag 420
gtatatacta ctttttgtt tcagtcgtca tattgtttaac aagtgttctt tttgtcgcccc 480
atgccaccc tttccaaaaca catggctcga gagtgtggag gaatgtttt cccaaaagaaaa 540
tagggtatata caaataactac atgttctcactt ctctaaatgtga gagctaaaca tcgggttattc 600
atggacataa agatgggagc agtagacact ggggaaacatt acaggggggaa gtttagagggt 660
ggccaagggt tgaaaaacta actactgggtt gccatgctca ctatctgcat gatgggattt 720
tttgttattct aaacctcagc atcacgcaat atacccttgtt aa 762

```

<210> 132
<211> 1550
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7409581CB1

cgaggagacg gggatcaccg agctcaggga gagggaaaag tcctccctc gcccagctcc 900
 tccacccggc gcaggggcgc tggatttcg ttgcaacaat cctgtcact gtctatttcg 960
 agttaaaaaca cagtgggtgg ccaggcacgg tggctactc ctgtaatccc agcaactttgg 1020
 gaggctgagg cgggtggatc tcttgaggcc aggagttcaa gaccagctg gccaacgtga 1080
 tgaaaccccc tctctactaa aataaaaaa attagccggg tgggtgtca cacgcctgt 1140
 atcccagcta cttgggaggc tgaggcagga gaatcgctc tgcaccccg aggcggaaat 1200
 tgcaagtggc cgagatcgcc ccactgaact ccagcctggg tgacacagca agactccgtc 1260
 tcaaaaaaaa aaaaagtggaa aaaaaaaaaga aagccataat gcatgttcac tgacagaaac 1320
 ttaaacattt gaaacaaaaga aaaaacttcc tggccagggg cggtggtca tgcctgtat 1380
 cccagcactt tgggaggccg cggcagggtt atcacaaggt caggagatcg agaccatct 1440
 gggcaacacg gtgaaaaccc cgtctact aaaaatacaa aaatttagca ggcgtgtt 1500
 gcgggcacct gttagccca gtactcagga ggctgaagg agcgagaatc 1550

<210> 133
 <211> 2803
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7437113CB1

<400> 133

agccagcgcg ccatggcgga cccggagggtg tgctgcttca tcacaaaaat cctgtgcgcc 60
 cacggggggc gcatggccct ggacgcgcgt ctccaggaga tcgcgcgtc tggccgcgc 120
 ctctgtggc tgctgcagggt ggccggggcc gaccgcgtt tgggtgttgc gaccggggcc 180
 gaggccgggta tcacccgatc ggtggggcc accactcgag cccgggtctg cctgcgc 240
 tactgcccaga gaccctgcgta taacctgcat ctctgcacac tcaactttct gggccgggtc 300
 aactattcgc agtccgagcg gaatttatgc aaatattctc atgagggtct ctcagaagag 360
 aacttcaaag tcctgaaaaaa tcacgaactc tctggactga acaaagagga attagcagt 420
 ctccctctcc aaagtgtatcc tttttttagt cccgagatat gcaaaagtta taaggagag 480
 ggtccggcgc agattttgtaa ccagcagccca ccgtgttcaa gactccacat ctgtgaccac 540
 ttccacccgag ggaactgtcg ttttccaaac tgccctccggg cccataacct gatggacaga 600
 aagggtctgg ccatcatgag ggacgcggg ctgaaccccg acgtggtcca gaacatcccg 660
 gacatctgca acacgcacca catgcagaag aatcccccg ggcggcggc tcttcttca 720
 catcgtagaa acatggcata tagggctaga agcaagagta gagatcggtt ctttcaggc 780
 agccaaagaaat ttcttgcgtc tgcttcagcg tctgctgaga ggtccctgcac acctagtcca 840
 gatcagatca gccacagggg ttccctggag gacgcgcgt tggacgatct caccgc 900
 ttacacgtatc tggggagtca ggatcgccgt cggccctccct caggctcgtc caaggctact 960
 gatcttggag gaacaagtc ggcggggaca agccagaggt ttttagagaa cggcagtcaa 1020
 gaggacctt tgcattggaaa tccaggcgcg acttccatctt cttccaaatc aacatcagcc 1080
 cccaaatggc agacgcctcac atccgtggc aatgaccaag ggcggcggg aaagactgtg 1140
 ttttctccca cgctacatgc cgccgcgttct tctcttggct ctctgcacac acctgaagct 1200
 gtgaccacca gaaaggccac aggctgtttt tccctcagact acaggatcat caatggcaaa 1260
 agtggaaactc aggacatccca gcctggccct ttttttaata ataatgtga tggagtggcc 1320
 acagatataa cttctaccag atccctaaat tacaaaaagca ctgcgcggg tcacagagaa 1380
 atatccatcac cttaggatca ggatgttgc cctgttccc gagatgttca gcccactggc 1440
 agaattcgacg atgatgttgc cccaaagatgta gcaacttttgc acgattttt atctgtatgtc 1500
 acaagatccca ctttttttttgc tggatgtatgc catgcactcgg aggaaaatttgc ttttgc 1560
 ctgtgttaagg gttgtccgcgtaatgttgc tggatgtatgc tggatgttca ttttgc 1620
 cgggtggcaga tgcttattgg taaaacctgg acggacttttgc acgatgttca gacgtcgag 1680
 aaaggctact gtaaccccgaaatccac ttttgc ttttgc ttttgc ttttgc 1740
 cgggtaatga gttgttgc ttttgc ttttgc ttttgc ttttgc 1800
 aagccagccaaatccac ttttgc ttttgc ttttgc ttttgc 1860
 acatggattc agtatggaga agagaaagac aaacggaaaaaattccacatgc ttttgc 1920
 tacctggagt ctctctatca atccgttccg agggggatgttgc ttttgc ttttgc 1980
 cggaaatcgatc agtgcgttgc ccaaggatgttgc ttttgc ttttgc ttttgc 2040
 aaggatgtca tcagaagaccaatccac ttttgc ttttgc ttttgc ttttgc 2100
 gggccagatc aagtgttgc ttttgc ttttgc ttttgc ttttgc 2160
 ctgggctcat caagtcactc gtgaatctgg agccgttttgc ttttgc ttttgc 2220
 attactctgc agtttccatt ttttgc ttttgc ttttgc ttttgc 2280
 gtgactgaaa ggtactaga tggaaaatgc ttttgc ttttgc ttttgc 2340
 agtctccatc atactctggc ttttgc ttttgc ttttgc ttttgc 2400
 acacctaagg aataatcata tataactgggt ttttgc ttttgc ttttgc 2460
 tttttttttt taggggggtt ttttgc ttttgc ttttgc ttttgc 2520
 aagtgtatccctt cttacccatc ttttgc ttttgc ttttgc ttttgc 2580
 ctggcttgc ttttgc ttttgc ttttgc ttttgc 2640

```
gaggggcgga gaaagagata gaaaaaaaggg atgagctagc tgtagagca agggtttgg 2700  
tgagagataa tattgattga agggattta aagggaaatgt tgctgtgggg gattcattgt 2760  
aactctcctt gtgaactgct cagtaaactc tacattgttc atg 2803
```

<210> 134
<211> 627
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7500260CB1

<210> 135
<211> 2337
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7659504CB1

aatatcaggg taaaatttta tgagatagca tgaattcttt ttgaatcatt ctc当地acat 1920
 tctcatcaga gatgttgcataaagaatttatataattt gccaagcat ggtggctcac 1980
 acctgttatac ctagcactt gggaaacaga ggtgggtgga tcacctgagg tcaggggttc 2040
 gagaccagcc tgaccaacat ggtgaaaccc tgcactact aaatatacaa aaatttagccg 2100
 ggcgtggtag cacacgcctg tagtcccagc tactcgagg gcccaggcat gagaattcct 2160
 tgaacctggg aggtggaggt tgcagtgagc caagatcaca tcactgcact ccagcctggg 2220
 ttagatagaaca agactccatc tcaaaaacaa aacccacaag aaatttatata taattcattt 2280
 tggaaatctt tcatcattag caattctgtt gtattaccct tcgcaaccgt ggctacc 2337

<210> 136
 <211> 957
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 821165CB1

<400> 136
 gtgttaaaccc cctagaaatg gcaacttctt gatggggatg gaactcattt ggcaggggc 60
 ataggggccac caatctggag ctccttgagc tccttgccac tgcctgggc ccctcctccc 120
 acgcctcat ccctcccacc ctcaccactg gtcaccgc cagcctggc tccctttgc 180
 ctccggcccg cctctcagca gaactgccc agcatgtcca gggacaagggt tcttagaggg 240
 actggatttgc gaccattctt cccagccaga tattttgcag cagggagagg aggctgcatac 300
 agattcttat gcccacaagg caccacttcc ttcttcaggta aaggcaatgt ggggctgc 360
 atttcatttc attcaggatc ttctcttaac ttaattctt tgccgtcagt ccctcccg 420
 ttctcgagaa tgcattgtccc tagcaactct cacagacctg acccctgaca gtcatgtccc 480
 acccggaaact ccaaaggccag cagggttgc tgctgcctag aaagacctat tgccatcatt 540
 cccttgtccc tgctctataa acgtctttt gggaaaagca ctcccatctc cctccttcc 600
 cacacagaca ggcactatg cgtcttattt gtcgtgcct tttgtaaaaa taggaagtgt 660
 cagccggcgc cggtgcctca tgcctgcaat ctcagactt tgggaggccg agcaggccg 720
 atcccgaggat caggagatcg agaccatctt ggctaacacg gtgaaaccccc gtctctacta 780
 aaaatacaaa aaatttagccg ggcttgggtt cggccctgt tagtctcagc tactcgagg 840
 gctgaggcag gagaatgtcg tgaacccggg aggccggact tgcagtgagc cgagattgcg 900
 ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaaaa 957

<210> 137
 <211> 1731
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7499672CB1

<400> 137
 gctgtctgag ggtggagggg tgagttagggg gcctgcagtg tgctgtgacg cctggaaagg 60
 ggattcttaag ccatttccca tcagccattt actaagttagc ctggggatct tttaaaaatg 120
 cagatcctga tagatttaggg ctgggggtct gccaagatt ctacatttt aagagtccct 180
 ggatgacgggt ggcattcaca gaccacagct tctatgttag gtagagcact tgggtttctg 240
 tctgcctgcc gcacctgtatc agtagttactt gcctgcattt gtcgtgcctt gaattttact 300
 tggggagacg ctccgtctt agcaccctctt gtggtagggg tttccagag tgcgtggcatt 360
 accccaactg tctctgcaga cggctccctg catgtttccc acaagcgtc agatggctga 420
 attgcaagt ctgtgggtct gctctttggg gcccacccgt tctttgcctt ccctccct 480
 tagcgtatgt tcccatccctg tgccatcactt caagtgcgtc cacatgttta ggctaaagggt 540
 ggcattaccc agtggccctt ccccgaggac accagtgtcg taacttggat taattttgtgg 600
 aacgttaagag tcaaggctcg tgcattgtgt gaaatggat tgagggatg ttggggatc 660
 ccacctggta tcaagtaaggg aaccatggcg acggccagcc ttgcccattt gaggcattt 720
 ctttgcagg ctttctcagt agtggagaag ggaggaaggaa gaatgcacgct cttcagtgc 780
 tgcattgtcg tgcccaagag cctgtattgg gcacccactt taacgtctaa cttcagattc 840
 actcttgggc attcctgtct tcctctccaa tcttgaatgg atgttggctt cgataatgtc 900
 atccctgaagt ttctttgtcc acacagccctt ggctgggtgt taataaggctg ttaatgcagc 960
 cttgcactca ggaaggccctg atgtttaaag gaactgtgtc tttgttcttc ctctcttccc 1020
 tctttcttctt agtcccaactt tatctcttctt ttctcttccctt ccctccctt 1080
 ctccctctta ctctccctt ttctctctc ttctctctaa aaacccaggctt tattccaca 1140
 caatgcatttca acatgcagta gcttctctgc ttgagtgcac tgggtgtgatt aggtttctt 1200
 aacatgcaca ttggccttgc tcttgcattt tcccacagac cataaaaccaa 1260

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| gaattatttt | tatttgtatt | attttgattt | ttttaaagta | aatattaac | ttttcctctt | 1320 |
| tgaaaataat | tcccatttgg | aacatcagca | tacagtttga | acatttattc | gcctcctgag | 1380 |
| cttgtacaac | agtctgtggg | gttgctcgag | aaggcaagcga | aaagccagat | gagcgttct | 1440 |
| aaacttagag | agaggtgagt | aaggcttgc | ggcgatca | tgtcggctgg | ggcccttttg | 1500 |
| gcctcttccc | agaggatgtc | ctgaagaac | ttccccaggg | cctggctgtg | ctgctggtac | 1560 |
| agaaccctg | acagcttgtat | tccaacatca | aaggggggcgt | tgaaccggac | ttccagttca | 1620 |
| tcctctgccc | cttctgttgc | acctccatct | tccggggcgg | gccagcctgc | tagagctcgg | 1680 |
| ggctgcagct | tggctgttgg | cttcttcgac | tcctttctct | gctggactct | c | 1731 |

<210> 138

<211> 695

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7500276CB1

<400> 138

| | | | | | | |
|--------------|--------------|--------------|--------------|-------------|-------------|-----|
| ggaaaccttcgt | tatccgcgat | gcgtttccctg | gcagactacat | tcctgctcct | ggcgctcagc | 60 |
| accgctgccc | aggccgaacc | ggtgtcagttc | aaggactgcg | atattcagtc | taaaaagcagc | 120 |
| aaggccgtgg | tgcattggcat | cctgtatgggc | gtcccagttc | cctttcccat | tcctgagccct | 180 |
| gatgggttga | agagtggaat | taactgcctt | atccaaaaaag | acaagaccta | tagctacctg | 240 |
| aataaactac | cagtggaaaag | cgaatatccc | tctataaaaac | ttggtgttgg | gtggcaactt | 300 |
| caggatgaca | aaaacccaaaag | tctttcttcgc | ttggggaaatcc | cagttacagat | cgtttctcat | 360 |
| ctctaagtgc | cttatttgagt | tcgggtcgate | tggccaatga | gtctgtcttag | actcttgacca | 420 |
| gcacctccag | ctctgtctgt | tcgaacaaca | gtgactgtct | ctccaatgtt | atccaggatgt | 480 |
| tcgttgaaga | ggagggtgctc | tgttagcagaaa | actgagctcc | gggtggctgg | ttctcagtgg | 540 |
| ttgttcttcat | gttctttttt | tcgtgtcttag | ggtgttttca | ttaaatgcag | cactttggta | 600 |
| agccgttttt | aatttttttt | ttaacaacat | taactgtggg | ccgcttttgc | aacgggggat | 660 |
| tactcttgcat | taataaaaact | cctttttctg | tttagg | | | 695 |

<210> 139

<211> 1468

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1440723CB1

<400> 139

| | | | | | | |
|-------------|-------------|--------------|--------------|--------------|-------------|------|
| gggaccctca | gagacctcac | ttagacccctgg | gaggcccatt | gctcacatgg | cctggctgct | 60 |
| cccggtggc | agaagatgga | gaagccacag | acagcgtcct | gcgtggggtc | tgtggcgct | 120 |
| gacccagcg | ccgtgcaggg | aacagccctg | cccgccagaag | cgatgccgg | ggcagggtgc | 180 |
| agtgcaccc | gaggaaagcct | tctggacgga | gtggtgggga | gggcgcgggc | gcatgtctca | 240 |
| ggccagtgca | cttcacatct | catccccac | ctgggggtt | gagcttgggt | tggggtgcca | 300 |
| gtcccccact | ggccagccac | cccttggga | ctcacccctgg | gcctcttgc | caatcaaggt | 360 |
| ggagacttg | ggacacccct | cctccacgt | aaacagactga | ccgagacatt | tetccaccac | 420 |
| ctccctcaca | ctgtccccgc | ccagccgccc | cctccctgg | cccttggcag | gaggctcctt | 480 |
| ggcagctgac | gggaggctcg | ggcactgcca | gatggccct | tgcgaagtct | tgggtttgt | 540 |
| tctaaccact | ttttcttgg | aaaagtgtgg | ggtgaagagc | gatatgggac | tccataggca | 600 |
| gcccgcagg | ggtgtgtggcc | tcgctccccc | tgctgccccgg | ggctgcccacg | gcccacctcca | 660 |
| gggatgggt | tctggccctgt | ctgtggaaac | ccatcaggaa | gcaccccccacg | tgccgggcct | 720 |
| caggccaaag | caccggcctg | gaaggggcac | ggctggggga | cagtggcatg | aggtcagaca | 780 |
| ttggctgggg | ccggcccccgc | aggcacecca | ccatccccacag | cctccatgtt | ctgtctgcaa | 840 |
| aatggggcca | cagtggggcc | tggggcagagg | agagaactgc | ccactgcccc | aagcacggtc | 900 |
| cccagagagc | tggaggccag | ccagtccccc | acaccccgcc | cctcccccacg | agaccccttc | 960 |
| tccagtgccc | cgctgtgccc | gactgggtcc | tctctgaacc | tctgccttt | cgtcaactgaa | 1020 |
| gttcgttaggt | tcttgttctt | gggaactgtg | agttcaggca | ctaccagcac | gacagccaga | 1080 |
| gggacggacg | gacggttgg | caggctggag | gcccctgcca | tgggcactca | ccccgtggga | 1140 |
| cagacagaag | gatggatgg | cggttggaca | ggctggaggc | ccctgccttg | ggcactcac | 1200 |
| cccgccagg | ggacagaagg | gcggatggat | ggctggacag | gctggaggcc | cctgctatgg | 1260 |
| ggcactcacc | ccacggggac | agacaaaagg | tggatggaca | gctggacagg | ctggaggccc | 1320 |
| ctggcatggg | cactcccccc | ggggggacaga | cagaaggacg | gatggacggc | tggacaggct | 1380 |
| ggaggccct | tccatggggc | actcaccccg | tgcgacagac | agaaggacgg | atggacggct | 1440 |
| ggacggggcg | gaggccccctg | ccgtggac | | | | 1468 |

<210> 140
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7479612CB1

<400> 140
gaaaaaaaaacac agcttctgtat atcttttctc tttcttcttc ctggaaattt gaacaaaattt 60
tttgaaggaa gaaatattgt caacattata accttgatgt aagcattatt accttagtaa 120
atatctcgct aagatactgt acatcaaaat taaaaatcaa acaacttcta aatgtatTTT 180
tttgcatttt tatgtctgt acctttgaat atagtgttatt tattatTTT agtaaaaattt 240
catgaactgc tgtgtacttt ggtttccacac actcaacacc ataccaataa tgaatttattt 300
agtaatttca agttactaat tgattggctg tcatgtctaa taaatgataa tgccatctgt 360
gaaccagcaa ggcataagaca gaattgtttt gaaaaaagcc tgattgtac cagttgcatt 420
aattctaaact cccccataatt tagacctttt ttttcttac aaaaatgtga aagaatatta 480
tttagaaaaa cttagcacct ttaataaaagc atactttctt cacacccctt cccctgtctt 540
tcagaagtaa attatctaca ggttccttta gtgaaagtct ctcaggcctt atttgtctga 600
aaatgttattt attttgcattt attttcttaa agcagtattt gttggaaaaa atttgagatt 660
gatgttattt ttcttgcaac attttgaagt ttccctgttag ttgttaag 708

<210> 141
<211> 1781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1391514CB1

<400> 141
ctgtgttat atgtgagtccc cattcagaaa aagaaaaagaaa acctgagcc agcaaggaga 60
agagaatggc acctttgggt gctgttaat caccaccgct accctcagtc cacatcagtc 120
ctttgaattt caaaggcagg tactctctag ctcagaggct ctcgaacttcc agcctgtgt 180
ggagtccaccc atcctggcac ctgatttagaa acacagacac ccaagtcctt ttccaaatata 240
tctgactcaa ttgacacctt atgcaccaag gaagtgtatt tttttatTTT tatttttga 300
gccttgcctt gtcgcccagg ctagagtgc agggcgaat ctcagactcac tgcaacccct 360
acccatcggtt ttaatgtt tacttccaca tagcggatcc tccttgcattt ttccctgcacc 420
tacttgcctt ggactttgtc ccaggcggca tccccctgtt ctgtccacct tcaggcctt 480
tgtctcaccct cctgtgtcttataatgtt aatagagccct aaaaatagtta taatggcccc 540
tgcattgcag cctgcacttc tctgttcttgc gctggaaaggc agccaaactg actcagcaca 600
aaagtcatc tccagaagcc gggacaagat ttcaaaagagg gcttgcagg gctggaaaga 660
ggcttgcctt ctttagacagg ggatatcaga gcctgtcacc ctccagaaga gatTTTccct 720
ttccagagaa gcagactgaa caaaagaatcc ctttggctttt aaggaggatt taaaaacaag 780
cgagaagcccc aggtcaatcc cttccctgtt agctacttag ccattcatgc caagggtggg 840
cagattaggg gggaaaggac tggcttggga ggacatggaa gtttccctt cagctggat 900
tgtccacggc cttttggcag attatacttctt gggccatatac gcagaccgc gcccattctgt 960
cgctctttt tacctgggac tcagctgtt ttccctgtt ttttttttcccttacaa 1020
ttttttttt acatttttt ttctttgggg aggccaagggt gggtgatca cctgaggatca 1080
ggagggtcgat atcacctggc caacatgggaa aaacccctt tctactaaaa atacaaaattt 1140
agcgggtgtt gtggcggtgt cctggctact caggagactg agatggaga atcgcttgc 1200
cccgggggc ggagctgggt gtgaggctgat atccgcaccac tgcactccag ccgtggccaa 1260
cagagcaaga ctccatctca aaaaaaaaaaaaaaaa aaaaaaagggg gggccggcccg 1320
aaataggaa gccccggcga cccccggggaa ataattccgg gaccggggac cggggggggg 1380
ttttttccat cctgtgtggc gcctcacagg tgccctggat tccataatgg gggggcccaa 1440
acacggatgg gtcgcttggc caccatagggt gtcctatgtac taaactgggt gaccggctc 1500
acgaacagggg gggggcagggg cgaatatttgc tctccggcg gtacacccttctt gatattgt 1560
gtacttatttgc gcttaatgtt acttccatgttatttgc tctgtatgtt ccagctgtctt 1620
ccccgttaca aacgtggctc agactaactt ttgttaacta ggcgcagaga ctttgcgaga 1680
tcttagaccat tttccgttggg ttcgccttta aaccgttgggtt agcggagaaa attcgaccctt 1740
cggttactgc ggcaccccaa catcgctgc aagactacag g 1781

<210> 142
<211> 1032

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2102578CB1

<400> 142

ctcgagccct tgctgatgtc cccagctgaa taaagccctt ctttctacaa tttgggtgtct 60
 gagggtttt gtctcggtc cgtcctgta catttcttg ttccctgacc aggaaacgag 120
 gtaactgatg gacagccgag gcagccccctt aggccggctt ggcctccctt gtggagcatc 180
 cctgaggcgg actccggcca gccggagtga tgcgatccaa agagcaactcc cgggttaggaa 240
 attggccccc tggaatgctt caccagagca gcgtgttagca gttccctgtg gaggattaac 300
 acagtggctg aacaccggga aggaactggc acttggagtc cggacatctg aaacttgaga 360
 acatcaccac cctgaagcca gagactaaca ctgcaggact cagcaggact atttaagaaa 420
 caactgaggc atcagaccaa ctttccac aagtccctcg atcttcctg ccatgctgat 480
 gccatatatt ccaacgtat caacctggct ccccgagaagg aggacgactt tgctgtctac 540
 accaacaatgc cccctttca tcaccccagg aggacattgc cagaccaagt ggaatatgtc 600
 tccattgtat tccactgatg ggaagctaatt gagatgctca gagtgggggt cagacctggc 660
 cccagctgaa tcttggcata cccttgcgtt tagattttat tgcgtgttta aaaaaaaaaa 720
 aatacatagg ccaggcacgg tggctcacac ctgtatccca gcacttggg aggctgaggg 780
 aggccagatca ccaggtcaag agatcaagac catcctggcc aacatgtga aacccctgtct 840
 ctactaaaga tacaaaaatt agccagggtt gttggtgcat gcctgtatc cccgctactt 900
 ggaaggctga ggcaggagaa tcacttgaac ccagggggcg gaagtgcag tgagccaaga 960
 tcacaccgtc gcactccacg ctggcaacag agtggactc catctctaaa aaagtaaat 1020
 aaataaaaaat ga 1032

<210> 143

<211> 2870
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3213122CB1

<400> 143

agcatatttt gaattgcagg tagcatgtga ccctcacggc gtgtgggaga cctgaaagag 60
 gaaacttact ttgcctaacg tcagatgtcc cgcacacagg atgtgttatg cagccctgcc 120
 tggcccttgc tgcacctgtc tgctccttgc aacagccccgg ggagccgcaaa aggcaact 180
 tactagaaaa gtcatggaaa gctggatggg cttactggct ggtgcctggg ggacgactca 240
 gaccctggga caggagggtt cccacccctgc ccagccagct cttggccca ggatccctgc 300
 ctcttcctc caaatctggc ccccgccctt tccctctctg gtccctccctg ttccacctgc 360
 aggggtctca gtgcccggaa cttggcgtat ctgagggtggc cagaggcgcc agccggagcag 420
 gatgtcgagg ctgccactcg ctttccactg tgctgtgaga gccacccggaa cacgtcagca 480
 tctcccttgt tctgaatatac acaccggagac acaccggatc cttccggagg catctgcaga 540
 ggcagcaacg ccacccggagg gctggcact ctccagctcc aacatttcgt ccggacctcc 600
 cggcagcgca gggggggatc ccctccctgt agggggcccg agggggctcg agaaggctgt 660
 cgccctgtatgg gtcctgtcaa gttttcccttgc agccggccctt attetaccag ttttgattcc 720
 attttaaatc tgacttccaa gtggcaccccccc tgccgacgggtt cttccctctgg 780
 tgcgtgcctt ccatcccccc ttcctggggg cagccggttt cttgcgtgtt ggacaacaga 840
 gctctgccaa tgccacttat ctgcggccgtc caggacttta tcaccaactg tcctacttcc 900
 gactccagca aaggagcgcac agcgagcacg tctgtgtttt gctgtacta acaggccctc 960
 tgaataaaatc gaaaataatc ccacttaag ctgcaagagg aaagacccac agaaggaaag 1020
 tccttcacgg acggagaccc aggatccctga aatgcagtgc gtccttcata cgttctgaga 1080
 ataaaaatccaa aatcatgcac gccccggggag gaaaaggcaat tcctaaaaatac tggcagaaac 1140
 aacataaaaaaa aatcttgcgt tttttttttaa aactgtaccc aagaccaggc atgggtggctc 1200
 acacccgtaa tcccgacact ttggggaaagcc aaggccggggatc gatcacttgc gcccggggaaat 1260
 tcaagaccag cctggcaat gtagtgagac caccggccat ctctacaaac aatgtaaaa 1320
 attagccaga catgggtgtg tgcacctgtc gtcccgacta cttggggaggc tgaggtggga 1380
 ggtatggctt agcccgaggag gttggaggctg cagttagctg agattgtacc actgcattcc 1440
 agccctgggtg acagagcaag accctgtctc agggaaaaaaa ataaaaat aaaaaataaaa 1500
 tagccgtatc ttctgttttcc cagggaaagcc cgagccctgtt aagggtttt cagatggtag 1560
 tggaaacact tggaaagtcaat ctttccaaat ggtttttccaa aatcttcata gactaaaaatt 1620
 ctccactttt ctttccatgtc ttttccaaat gttttccaaat gatctgttag cggccctggca 1680
 gcccggggag gctctgtggc ctttccatgtc ctttccatgtc gatctgttag cggccctggca 1740
 aacaagggtt agccaaaggaggg agccctggaaat gggccatccatgtc ctttccatgtc 1800

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| agggctcagg | acacatccgt | ggggctaatac | tgtgggaaga | ggtttgactg | agaccccggt | 1860 |
| ctgctctgt | aatggggcgg | ctttcagca | tctcacacgg | agaaaacaact | tccttccttgg | 1920 |
| tcggagccca | agttagggat | aagggtcctc | ctgcctgcac | cgtgggca | ggccgcctt | 1980 |
| ttacagaatc | aacggccgtc | cactgaggg | caccgggtgc | caggggtct | aacacccctc | 2040 |
| cagagcaccc | ggcacacagtc | tcccttggagc | tgggtgtac | ccttagtctc | gttttgaaga | 2100 |
| caggactgg | cggtcaggtc | agccccatct | cacactgcgg | ttagtgcgg | gggcaggagc | 2160 |
| agcccttgt | tggggccacgc | cctgggcata | gaggggtggc | tccttgggg | atctcagat | 2220 |
| tttccaagt | tgtttttctat | atggctgaac | gatgtgacaa | aacacttgtc | aaggacaccc | 2280 |
| tctcagg | tctgtatctgc | atctttcacg | agcggaggg | gggggtgc | gcacttcctg | 2340 |
| gtggaccc | agttaccggc | catcagaaca | caaggaggca | gcgcgaaaca | tgctggccc | 2400 |
| gggggctcca | tcgccc | cactgcccaca | ctcagcttcc | acatgttct | ctgtgggcgt | 2460 |
| gtgccc | ttcatgttcc | tggggttcat | ggggacatta | gtgttgtct | tccctttctg | 2520 |
| tctcaaagaa | ttgactgtgc | ctgtcatgg | acgcagcggc | tgccatgaat | gtcgaccggg | 2580 |
| aaagcgatgg | gaaaagctgt | tcagacacag | ctgagctgcc | tctacctgtt | cacctgcacg | 2640 |
| ccaggccat | gcagttctgt | ccatccccgt | cccttggcaga | gccccatctgg | gagtgggtgt | 2700 |
| gactgtgcca | gctggagacc | cactgagac | cagggtgcag | cacagacaac | gacgcctca | 2760 |
| ggctcggtgc | agttagggatc | cgggagggc | acgcgttagaa | ttgtttttag | gaactggatt | 2820 |
| ttggcttaaa | gaataaacaa | tgtggttca | ccacqcta | ccaaaaaaaca | | 2870 |

<210> 144
<211> 2337
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 4326307CB1

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> | 144 | | | | | |
| tagaggcgg | agaaaaggct | gagggtggatt | cacaggctct | atagatagag | aacagtgtag | 60 |
| tgctgaaaag | gttagagagg | tcttttggc | tgacaataat | gaggtagtt | gggatcttgg | 120 |
| attctgaat | atgacttgg | tgacacataa | ggagatgggt | tcccccattt | caacttaccca | 180 |
| agttaggta | gcccccaacac | agtttaggtcc | ttagccctgt | gaattgttga | acaagtgtt | 240 |
| taaaccagg | atttctgtt | ctacagaata | gtcccttgc | gcctaccagt | attagcattt | 300 |
| ggatatgtt | ttcttgctcg | acttttttgc | ttacttaacc | agaatgacag | tcttccccc | 360 |
| atcttccttc | tttatttcta | tcttctacct | ttccctccca | aacttttcc | ccgacataac | 420 |
| agaaaacatg | aaggaaattaa | aggaggccag | gccgcgcaaa | gataacaggc | gtccagatct | 480 |
| ggaaatctat | aaggctggcc | tttctcgct | aaggaaacaag | cccaaaaatca | aggaacccccc | 540 |
| tgggagtgtag | gaattcaaag | atgaaaattgt | taatgaccga | gattgctctg | ctgtgaaaa | 600 |
| tgttacacag | cccgtaaag | atgtctgca | ggaactgaac | aaccaagagc | agaatggtcc | 660 |
| tatagaccca | gaaaataatc | ggggacaaga | atcccttct | aggactgtc | gacaagagga | 720 |
| tcgttagtct | aaaattatca | aaagaacaaa | gaaaaccgc | ctgcagatct | atcagcttgg | 780 |
| acgacgttt | cagactgtt | gcaaaagatc | cgccatgc | gtggaggagg | aagaagtct | 840 |
| caaccaggt | gaacaactga | gagtagagga | agatgagtgt | aggggaaatg | ttgcaaggg | 900 |
| ggaagtgtcg | aataaaaccag | acagggccga | gatagaaaag | agcccaggt | gtgggagagt | 960 |
| aggggctgca | aaaggagaaa | aggaaagag | gatggggaaa | ggggaggggg | tgagggaaac | 1020 |
| ccacgacgac | ccggcccgcg | ggagggccgg | ctccgcaaaag | cgctactccc | gctcagacaa | 1080 |
| acgaaggaaat | cgcttaccgc | cgccgcagcac | cagctcagct | ggcagcaaca | acagcgctga | 1140 |
| gggagcttgc | ctgacggata | atggatgtcg | ccggcccgga | caggatagga | ccaaggagag | 1200 |
| gcccaactgt | agaaggcaag | tgtctgtgtc | ctcaaccatg | tcctttagacg | aggacagaat | 1260 |
| tgtatgagct | gatggattag | gaccggcagg | aagttcagaa | aggaagagac | atttagaaag | 1320 |
| aaactggct | ggccgtgggg | agggtgagca | gaaaaccagt | gctaaagaat | atcgaggcac | 1380 |
| tcttcgtgtc | actttcgatg | cagaagccat | gaacaaagag | tctcccatgg | tgaggtcagc | 1440 |
| caggatgtat | atggatagag | gaaagcctga | caaaggcttg | agcagtgggg | gcaaaggctc | 1500 |
| tgagaaggcag | gagttccaaaa | acccggaaaca | agaaccttgg | ggtcggtgtc | gtggcattct | 1560 |
| gatttttgt | gccccatcca | cccttatctgt | caattcagca | ggttctccag | agtcgcgc | 1620 |
| tttgggacat | cggttttgt | ttggatctgg | tagtaagggg | tctcggagg | ggggcgttgg | 1680 |
| aggcaccaca | cgccgattgt | gggacccaaa | caatcctgtat | cagaacccctg | ctctttaagac | 1740 |
| tcagacgccc | cagctacatt | tcttggacac | tgatgtgaa | gtcagcccta | catcttgggg | 1800 |
| tgactcacgc | caggctcagg | catcttacta | taagttcaa | aactctgaca | accccttatta | 1860 |
| ttaccccccgg | acaccaggcc | ctgcctccca | gtatccctgg | catgtgtgg | agcagttttt | 1920 |
| attagagaga | atgtcaattt | tgcaagttaa | tttcaagttt | ccagccacgt | cagggaaaaaa | 1980 |
| acatgaagga | attaaaaggag | gccaggccgc | gcaaaagata | caggcgctca | gatctggaaa | 2040 |
| tctataagcc | tggctttct | cggctaaagg | acaaggccaa | aatcaaggaa | ccccctgggg | 2100 |
| ftggagaattt | caaaagatgaa | atgtttaatg | accgagatgg | ctctgttgg | gaaaatggta | 2160 |
| cacagcccg | taaaagatgtc | tgcaagggaa | ctgaacaacc | aagagcagaa | tggtcttata | 2220 |
| gaccggagaaa | ataatcgcccc | acaagaatcc | tttcttagga | ctgctggaca | agaggatct | 2280 |

agtctaaaaa ttatcaaaag aacaaagaaa cccgacctgc agatctatca gcctgga 2337

<210> 145
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6037749CB1

<400> 145
ctagcacttt ccaaacagac ttagaccatg gcagtcttcc atgacatgct gctgcagcca 60
ctggggatgt ttctgtgcct cagtcgcag ctttcttctg ccacctttat aaggtagt 120
agcacctgct tcaccccttga tgaatactac accataaccc tagacatcaa ggccagttca 180
catatctacg aaagcaatgc agtctattct gtatttgttc ccgtaatgaa cagcgtctat 240
gctgtggta tgaaaacccctt ggacgagaac agtactcg cgggcctctg gcaaagagc 300
gataaaaatt gctacagcaa ctccacgtat tacgtgaaag atcaatacat gacgggttta 360
gaggcacagt ggcaagcttc tgaacctgag aacataactg aagtggagat acaagcttc 420
actgtccaga tcagagcgt gcctatactt cctactctgaa agctaagaga aaaacgttac 480
aaggaacttc tgtgactcat gtgactcaag aaagaaagga gaaaggagaa atagctctgaa 540
ggctgctggc agcttcccat ttgtccacac cagtagattt tgaaggcca gagaacagga 600
acgaccatgt ctgagaagcc actatagaaa aaactatgtt ttaccacctt tggccaaca 660
atatattatc ttaacataaaa aaaaaaaggg ggccgaaaga gaccggaccg gaaatacgc 720
ggcttaga 728

<210> 146
<211> 1952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6285519CB1

<400> 146
cccccttcctg taattgtctt ttctttcatg caccgctact tacctgtgtc ccctcttgcc 60
cccccttttgc ttttcttc ttttcttcgt gtgagcaaca aggctgttta ttcaacttgg 120
gtcaggcgtg gctgagttagt aaagagatgc agccaaagggt ggtgggatta tcattagttc 180
ttatagttt ggggataggc ggtggagttt ggagcaataat tttgtggca ggggtggatc 240
tcacaaatgtt catttcgtaa ggtggggaga attaccaaga acctgtttaa ggttggggga 300
gattacaaatgtt aaccccttta atgggtgggg agatgacaaa gtacattgtat cagttaggt 360
ggggcagaaa caaatcacaat tggtggatg tcattcgttta aggctgtttt cacttcttt 420
gtggatcttc agttgttca ggcattctgg atgtatacgtt gcagggttaca ggggatatgaa 480
tggcttagct tgggctcaga cagtcctgc tcctcaaaaca ccttcccccgg gcttggaaat 540
gaagtggcag ggagccagagc ttcctgtgt gacctgcacgg ggacttcaact gaggtgttgc 600
acatatgtgt cacttgcacgc ttccctgagaa gtatgttta gtgtcagcagc caggctgtgt 660
tttccctgtat ttgggtttag atccccctta gttggatgatc ttccaggggt ccccaaggga 720
ccagaaaatgtt atgtttatgg aatgacatgaa ggtcggaaaaaa gaaatcaaat ttcttatgaaag 780
gggtggatgtt ttgggttgc agacaagaca tttggatggaa tgctccaggaa ggtgatggc 840
atgcattttt ttggcacgca tgtttttaat aaaggaagac aagaatagac tcctgccccca 900
agatggctgc atgttcaggc agtggccctt gcccagat gccaaatgaa acttaccaga 960
ggatgcaggc cgctgttca gtagaaatccg gaacaccaga aagactgagg tagaaaagtt 1020
aaaagcttag ttaagaatct gcaagcaggc ggcaaggata aggaacatgg gcttggaaag 1080
attcagaagc aagttaatgtt gctcagcccg gcttaagctg aatgacagag aagcaggagg 1140
agagaaccta gagaagggtgc ggcctgtgt ctggggaggg gaaacccctca cagtgggaaag 1200
aaaccaccccttccctgaa actaaaaaccc ccatctgacc cacgtcttgc gctgtatgc 1260
agcttaatgg ttggacaaaatgg cttccatgttgc gatgcgtatc ttgggttttgc ttctcaagcc 1320
acccttgcattt gttggacggca atgggttaccctt cattttatag gtgacacgaa gagaagcact 1380
cccatagcaa gatggccctc ttggatggaaat caaatgcagg tgactaagcc agggagggtct 1440
cccatctatgtt cactctctgg aacccctggcc acgatcatct cagcccttgc tatatgtat 1500
tgtgacatgtt gttttgtccaa gccggcccaaa ttgtccattt ttatctgaa aaccccttcaaa 1560
aatcaacccca caactggccctt taacccctaaa gcaaaaaacat catcaactgaa tgtacgtatg 1620
tgtgtgtgtt atgtatgtac aatatgtatg tattgtactt attcaggggaa gaatttggga 1680
acagttgtgaa caaatctgac aagaggctca ttgtcagccctg aaaacccctca ggggtcaca 1740
agcctagcag aggatgtcact ttggatattca ttgtcaacaga ttatatacaga ctgattggag 1800
accagctacg aggccagactc ttggagagaca caaaaaatcgttcaagacacac atcataggt 1860

taggaagctt cctacccaga agggaggtga acacaaaaag gcccaagagt cctcacagta 1920
 gcccgtcgac ccgggaattt ccggaccgga cc 1952

<210> 147
 <211> 2490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 70336045CB1

<400> 147
 agaggaagag cgccggccgc ggcgctgcgc tgagagcagg gcccggccaa ggcgagtgcc 60
 gccggggcca ccatggccac ggacgagctg gccaccaagc tgagccggcg gtcgcagatg 120
 gagggcggagg gccggccga gacccggag cagccccggc tgaacggggc agccggccgc 180
 gccggggggg caccggacca ggcggccggag ggcgtggca ggcggactg cgagctgagc 240
 gccaagctgc tgcggcgcgc agacctaacc cagggcatacg ggcggactca gtcgcccagc 300
 cgcgcgtct tcaaccccta caccggatcc aaggagttct ccaggaagca gatcaaggac 360
 atggagaaga tttcaagca gtatgtgcc gggcgggacg gcttcatcg cctgtatggag 420
 ctaaaactca ttagggagaa acttggggcc ctcagaccc acctgggcct gaaaaaacatg 480
 atcaaggagg tggatgagga ctttgacagc aagctgagct tccggaggtt ctcctgatc 540
 ttccgcaagg cggcgcccg ggagcttcag gaggacagcg ggctgtgcgt gctggcccg 600
 ctctctgaga tcgacgttc cagtgggggt gtcaaggggg ccaagagctt ctttgaggcc 660
 aagggtccagg ccatcaacgt gtccagccgc ttcgaggagg agatcaaggc agagcaggag 720
 gaaaggaaga agcaggcgga ggagatgaag cagcgaaaag cggccttcaa ggagctgcag 780
 tccaccttta agtagcgggg gctgcagccg accggccctgc tccggccca gtgtgggtgg 840
 cgagggtggc gcatgggagg ccgagcctga atccttgcct gtgtctgacg ggaccactac 900
 taaaaaccta aaaatatctg tgaatggagc aagttcaggg gtcttatgga ggtggcccg 960
 cccctccccg ctcccttcca ctctgcacga ggccgccaaca cggcgcgtgg ctccctgccc 1020
 gccccggccc tccctggcaa tccctgggtt ctcttgcacc cctaactgcg ccctgcctgc 1080
 tccggcactg ccccgaggcc agctcttgcg cctaggctcc tcccagccccc atgtgcctgc 1140
 cgcctcccttcc acacatccctt ctgtttttttt aacccggggaa cccctgcctt cctccagc 1200
 gcccacccgc ccctggggcc ccctggccagc cccttcccaag gctggagac agcagaagag 1260
 atagaatcag ggctgcccccc acagagtggg acccaagggg ctaattggag gcaacgagggg 1320
 accctcccccc agggcctttt ctcctctgc gtcttccatc tactgaaatg ggagaggggg 1380
 tggggagctt ctgttctgtt gaaggagccc gggcaggccc ccagcaccccc atgctgactt 1440
 ggagaaccccc agatctctgg ggcccagcca ggcagggtgt gggggcagct gtcccaatct 1500
 acctcacagg cccacccccc gccgggcattt ccgtgggatc atgggcaggg aaggctctgg 1560
 gggtcggaga cacccgtgt tagccatcccccc agccagaaca ccctgggggtt ctccggggctc 1620
 tggagagagt gggcgccggag gaagaatttttggg cacccttccca gggagagaa cgagcgccttc 1680
 gccttgattt tccgagaagc ctccgagaag tgctttaaatgt gtgttttgcgt ggcggcaggcg 1740
 gtggcagecg gggcctgtc cagcccttc ccgcattccct tccccaatgtt acgtccactg 1800
 ccttgtcacc agcgcacgtc ctgtcatgcc cacccttca ggaagcatgg ggacccttaac 1860
 accctgggtc cctgcaccag acaggccgtg gtcaggccca ggccaccggc cgggttctgc 1920
 cacagttcc caccgtgtcg ctgacatgcg tggccctgtg tgggtgtct ttgtctgtt 1980
 cgtgaaactg tgaccatcac tcagttccaa caagtggatg gcccctcgagg ccacagttat 2040
 gcaactttca ttgtgtgtca taacgacgtc actgtttttt aaactcgata actctttatt 2100
 tttagaaaaat gcccaggagt ctggaaatgtt acgcggactt ggaggggtt ttttttttgg 2160
 ccttagaaatc tgcagaaaattt aggaggcacc gagcccgccg cagcagccctc ggaccggat 2220
 tgcgtttgcc tttagcggtata tgtttataca gatgaatata aaatgttttt ttctttggc 2280
 tttttgtttcc ttcccttcac cttcccttctt ccccgaccccc accccccccaaa 2340
 aaagctactt ttccattccg ttgtacgatt attttttta actaaaggaa gataaaattc 2400
 aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 2460
 aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaaag 2490

<210> 148
 <211> 1051
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7153577CB1

<400> 148
 gccgcctctgtt caccaggaa tggggaaaag taagtagccca cagggctcac ccagctacca 60

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| cacagtggc | aaggccattt | tcaactccac | tgtgccccgc | taacagcaca | gtttatctcc | 120 |
| agcagcttgt | gtgcaggact | cagacctagg | cccagggtat | aagtttcccc | actaagaaaag | 180 |
| caagcatgcc | tttcaggcct | tgcggctccc | tgtctgcccc | cactgtcagc | tgtggctct | 240 |
| atgtcccttt | ctgcagcagt | tcaacttcac | ccccgatttc | tgctcgacag | agtttgcgccc | 300 |
| cagtcaaaat | tattacacag | ttcagtttga | agcttatttc | accctgcgac | cctggccaaa | 360 |
| ttctgccaac | tgtcttcctc | aatggcctcg | gtgagataca | gtcagggtat | gtttccctgg | 420 |
| cccaagctgg | agaatgggag | gccttacaaag | gcttccctcg | tactatttc | tactttata | 480 |
| ttttatacta | aatccatttc | agctcttaggc | aaggtaaat | ctttcttcca | taatctgggt | 540 |
| tttgagggttc | cccagtggag | atgtgtttc | agaggcaggt | ttcccccttc | tcacatgttg | 600 |
| ggaactcata | gtttttcacc | catctcatgg | aatttgcagc | agtgtgtgt | gaggccgagg | 660 |
| tgggaggatc | acttgagccc | agcagtttga | gaccagcctg | ggcaacatgg | caagacccag | 720 |
| tcttggtctg | tacaaaaaat | taaataatag | ctgggcatgg | tggcatatgt | ctgtaatccc | 780 |
| agctatcagg | aggctgaggc | aggagcatca | cctgagcccc | ggagtttga | gctgcagtga | 840 |
| gctatttttg | tgtcagatgt | ctccgcctg | ggtgacagag | caagaccctg | tttctaaata | 900 |
| aacagacttat | tttttaaagc | agtttttagtt | tcatatgtat | ttctcatat | ggtgtgaggc | 960 |
| aagggttcta | actttcattct | tttgcatgt | gctatccagt | tgtccttagag | ccatttgttg | 1020 |
| aaaggatgtt | tgtttctcac | cgaattggca | c | | | 1051 |

<210> 149
<211> 586
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7500299CB1

| | | | | | | | |
|-----------|-------------|--------------|-------------|--------------|-------------|-------------|-----|
| <400> 149 | gcccggcccg | cgctgggaag | tcgggtgcgc | tgccgtctct | gggttcgcca | tgcgtcccg | 60 |
| | ggcgccaggg | ccactctggc | ctctgcctg | gggggcccctg | gcttgggccc | tgggcttcgt | 120 |
| | gagctccatg | ggctcgggga | acccccgcgc | cgagtcctgt | gagcacgtgg | tgtgcacccg | 180 |
| | gccacatcg | tgcgtcggtt | accagacggg | cagcgcac | tgcgtgggt | gtcgagccgc | 240 |
| | gcccgcct | gtggccctca | gccccggcca | ggagcttgc | ggcaacaaca | acgtcaccta | 300 |
| | catctccctg | tgccacatgc | gcccaggccac | ctgtttctgt | ggccgcrtca | tccggctgtgc | 360 |
| | ccacgcgggc | agctgcgcag | gcacccctga | ggagccgcac | ggtgtgtgagt | ctgcagaaga | 420 |
| | ggaagagaac | ttcggtgttag | cctgcaggac | aggctgggc | ctgggtgcctt | aggcccccca | 480 |
| | tcatccccctg | ttatttatttgc | ccacagcaga | gtctaaatttgc | tatggccacgg | acactccctta | 540 |
| | gagcccgat | tcggaccact | tggggatccc | agaacctccc | tgacgaa | | 586 |

<210> 150
<211> 3110
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7480218CB1

attatcccc tcgagaagag gaaacaaaatg aaatagaacg acagcagtca caagtccatg 1140
 acacccatgt ccggacaaga tcagatgata gtagcagaaa tgaagtcata agctcacagc 1200
 aaatgtccca aattgtttct tgtgaagtaa gattaagaga tcagtgaaa ggaacaacct 1260
 gcaatagta cgaatgtcct gctggctgtt tggatagtaa agctaaagt attggcagt 1320
 tacattatga aatgcatacc agcatctgt aagctgcaat tcattatgtt ataatagaca 1380
 atgatgggg ctgggttagat atcactagac aaggaagaaa gcattatttc atcaagtcca 1440
 atagaatgg tattcaaaaatc attggcaaat atcagtcgtc taattccctc acagtctcta 1500
 aagtaacagt tcaggctgtg acttgtgaaa acatgtgaa acagctctgt ccatttcata 1560
 agcctgcttc acattgccc agagtatact gtcctcgtaa ctgtatgca gcaaattccac 1620
 attatgctcg tgaattgga actcgagttt attctgatct gtcccgatc tgcaagcag 1680
 cagtagatgc tggagtggtt cgaatcacg gtggttatgt tgatgtaatg cctgtggaca 1740
 aaagaaaagac ctacattgtc tctttcaga atggaatctt ctcagaaagt ttacagaatc 1800
 ctccaggagg aaaggcattc agagtgttg ctgttgtgtg aaactgaata ctggaaagag 1860
 gaccataaaag actattccaa atgcaatatt tctgaattt gtataaaact gtaacattac 1920
 tgtacagatc acatcaacta tttcagccc aaaaagggtgc caaatgcata taaatcttga 1980
 taaacaaaatc tataataaa aaacatggga cattagctt gggaaaagta atgaaaatata 2040
 aatggttta gaaatcctgt gttaaatattt gttatattt cttagcgtt atttctacag 2100
 ttaattacat agtcatgatt gttctacgtt tcatatatta tatggcgtt tgtatatgcc 2160
 actaataaaaa tgaatctaaa cattgaatgt gaatggccct cagaaatca tctagtgc 2220
 ttaaaaaataa tcgactctaa aactgaaaaga aaccttatca cattttcccc agttaaatgc 2280
 tatgccatta ccaactccaa ataatctcaa ataattttcc acttaataac tgtaaagttt 2340
 ttttctgtt atttaggcat atagaatattt aaattctgtt attgcacttc ttatttata 2400
 taaaataatc cttaatatc caaatgatc tggtaaaaatg tttgattcc tgggaatggc 2460
 cttaaaaaataa aatgtatataa agtcagatg gtggatgaa aacatccca gtatcatgt 2520
 agtaaaatgtg gggtaaagca tggacagccca gagctttctc tgtaactgtt aaattgaggt 2580
 cacatatttt cttttgtatc ctggcaaaaatc ctcctgcagg ccaggaaatg taatagcaaa 2640
 aagttgaaca aagatgaact aatgtattac attaccattt ccactgattt ttttttaat 2700
 ggttaaatgac ctgttatata aatattgcca tatcatggta cctataatgg tgatataattt 2760
 gtttctatga aaaatgtatt gtgccttgcattt actaaaaatc tgtaaaatgt tagtttgg 2820
 aattttttt ctgctgggg atttacatat taaatttttt ctgctgggtt ataaacatca 2880
 aaattaatca tggtaaag ttttattttc agttccctttt gcatgcctat ttcgatttag 2940
 aaatcacttt aagataaaatg aacaaaatca tggtaaagtc tctaaacttgc gtttatttgc 3000
 gtttagtataa ataacataca ataccagaaa aacaacaaaaa aaggccgacc cgccgacaagg 3060
 ggcctcgtaa acccgaaat tattcccgaa ccggacccctg caggcttca. 3110

<210> 151
 <211> 1852
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7501159CB1

<400> 151
 atggcagttt ctggatttac tcttggtacc tgcatacttc tggtgcacat tagttatgtg 60
 gctaatttcc ccaatggaaa agtaacacag tcatgcatg gaatgattcc tgaacatgg 120
 catagtccac agtctgttcc tggatgttcc atttacgtt gtcagatgac attcaggcc 180
 ggagatcaga tggtaagttac tttgtcaggg catccattt aaggctttt cctagaagcg 240
 cgtaatgtg aggatctgaa tggcccttcc attggcttcc tcacattgtat tgacagtggaa 300
 gtgtcacaac ttttgacctg tgaagatata caggatcag cagtggatca cagaagtgc 360
 tctaaaaaaa cagaaattaa agtctactgg aatgctccaa gcagtgcctt aataatcacaca 420
 cagttctgg tcacagttgt tgagaagttt aaaaatctact gggtaagat tcctggctt 480
 ataatttcc aaccaaatttc atttctttt acaacaccta aagctacatg agtaccttt 540
 ccaacgttac ctcccggttcc ccaacttaacc aacccattca gtgcctcaga ttgtggaaac 600
 aagaagttct gtatttaggag tcctttgaac tggatggccca agaaggaggc ttccctgtgtc 660
 ttcttgcatt tcacaagaga tgaccaatcg gtatgggtt aatagggccccc 720
 ggctattttt ctttgcatt gtctcatgtat cagttggatgg gtatgtatgt tgcttatctg 780
 tgtattcatg aagatcagac tggatgtatc cagccctccc atttaacggg gcaagtcac 840
 cctgtatgg actccagggtt aggttccctt gaggatatgg cttggagggtt ggcggacgg 900
 gttatgcagt gttctttcag aagaaacatt acccttcctg gagttaaagaa tagatttgc 960
 ctaaacacaa gcttacat atttctgtca gatggatcag ctaatgtatgg tcgaatttac 1020
 aagactctc acgaacacccctt gatttccatg gaaaaatatg atgtgcacca ctctccaaag 1080
 aacataggag gatcccttcc tggatgtatc tggatggccatc ggatgtcat 1140
 gttcaccaca actgtcctca cttgcattgc tttttttat cccgggggg 1200
 ctggagtagg catgcaggtt accaccata cttccggctgt atgtgtatgc ctttggcagt 1260
 ttttgcatttcc ttttgcatttcc accttttacat gacccaaatgtt 1320

taactggact cattggagta tgggaacagc tgctagaata atagcagact taaaacaatc 1380
 tggaaaatgt gggtgcac tctttaaaggta ttggtagatt acgcagccat aaaaaagaat 1440
 gaagtcatgt cttttgtac aacatggatg ctgctggaa tgattatcct acatgaatta 1500
 atgcagaaac agaaaatcac ataccacatg ttctcactta taaattggca gcgatgttcc 1560
 tggaaatgga tttaccaggta ctgaatcttc ctgattcatg gaaaacctat gcaatgaccg 1620
 gatcgtacg ctggcatgtt gggactgagg ttgttctgaa ggtacatgtc tatcggtct 1680
 ctcgcaaagt tgaatattg gatgatgaca gaattcagat ccttcagtca tttactgcag 1740
 tggaaacaga gggtcatgtt tttaaaagg cagtgttgc aatttatgtc tgtggaaatg 1800
 ttactttct catcatattt ttatctgca tcaaccatct atgaggcgc gg 1852

<210> 152

<211> 2057

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501932CB1

<400> 152

gtgggggggtt agccccagag aggacaggtg cttggcctca gcttgctcag catgcaagag 60
 gtagaaatgg gaatggaaat tgggtcctga gcccaaggtt tccgccttcgc tcagggcacca 120
 ccctgctgca gatttaggaag gacttgcgtt ggacccccc ggggcacggc cccaaactctc 180
 cctgggttag accggggccg gtgccttggaa ggctggccctg ggggtggcgtg gggaggggct 240
 gcctgggtgc tgcaggcatg ttgttgcgt tgagaaaaggcatc acatcagcc aatcctggcc 300
 ttctcttgc ttgttgccttggcc tggggccgc ccacaggccc agctgagagc cagcctggag 360
 gttaccgc acgaggccac ccaggccgaa gcccgcgtac tagactgcgc caagcaaagc 420
 agccagatcc aggtacgagg cctgtgcctg cccgcaccat atggccttcac actgcattct 480
 gggggccca ccagctggc cctggAACAC caggcagcag ggagtgggc tgagcaggga 540
 gctgggcaca ggggtcctgg ggaggttccc gggaccctgc ctccccacat ccctggccct 600
 cagccccagg ggcagccctg gccttagcctt cccttgcgtat ggcacaggc cctggccacc 660
 etgaagcccccc tcctgttccc gcccagaact cggcctgcattt cttggcctc tgggtctcc 720
 gcaagttcag cagcctgca caggccctgg aaatacagca cagcagcagc ctgaggagca 780
 tcgagggtgc caagacgcag gcgcctggc acggctcggaa cggaggcagc cggctgcggg 840
 tccatttggaa ggctgtggct cgccatggct gcaggatccg ggagctcctg gacgagggtg 900
 atgacgacac cttccctgcag gaatgcgcgc tcctccagcc cccaggccctt cttggccac 960
 tgacccctct gcagtggat gaagaccaac agctgggtga cctgaagcag ttgctaagcc 1020
 ggctgtgtgg cctcccttgc gaagaggggc gccaccctgg ggcaccagcc aagcctgtgg 1080
 acttagcccc cgtggaggcc ccaggccccc tggcaccggc cccaaagcaca gtttgcac 1140
 tgaggaggaa actctggcactt aattatcgca atctgaccc ttgttcgcgtc agggccaaacc 1200
 gtcacttcta tctgtcgcc caggaccgc aggttgcgcgc ctgtcgccgc tcccgccccc 1260
 caggccggcc cggcagctt gagctctggc aggttgcattt tgcccaagagc ttccaggccg 1320
 ggcaccacta ctgggagggtg cgcgctgcac accactcggtt gacactggc gtccttacc 1380
 cgcaactgcc acggcgcagg ctggggccccc acacagacaaa cattggccgg ggaccctgt 1440
 cctggggctt ctgcgtccag gaggacagcc tccaggccctg gcacaacggg gaagcccg 1500
 gcctcccaagg ggtgtcaggc cggctccctgg gcatggattt ggacctggcc tcaggctgcc 1560
 tcacccctcta cagcctggag ccccgacacc acggccctgttgc caccctccat gccttccca 1620
 accagccccc cacccttgc ttcctggcttgc tggagggttag gaccctggacc ctgtgcctt 1680
 aacccaggggc ttgttccctt ccggggccccc aggaagagggtt gtcagactgaa agaaggccatg 1740
 ggatggagcc ctggcatagc tgccaccatg cctatgtgc caagagctgc ccagcttcag 1800
 cttggggact ggaggaccag ctgttgcctt ctctgttaac tcagaaagag atgggagggtt 1860
 gggggagggtg agcataaaacg cagagttcac ttgtgcagcc tttttgaagg ggacacagtc 1920
 taggaggggg ataaatggaa tgcccttgc cccagagagaa cccagttcta ggtactgtct 1980
 gggcttggaa ggcgagagca gtgcccagggg gacttctggg cttacaggac agcgtgtgt 2040
 acaaattcag atctacc 2057

<210> 153

<211> 1848

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7501111CB1

<220>

<221> unsure

<222> 1800, 1806-1807
<223> a, t, c, g, or other

<400> 153

```

gcccagtggc tgctgtggc cagatactga tactttctt ccaaacagca taagaagtga 60
ttgagccaca agtatactga aggaaagggc ccctcgagg gtggtgtgaa gagataaatc 120
accagtccaca gactatgcac ccgactgctg ctgttcagtc caggaaaaat gaaagtgg 180
gtgtgtggc tcatttctt cttcacatcc actgacggcc acgggtggc cctggggaaa 240
aatgatggca tcaaaacaaa aaaagaactc attgtgaata agaaaaaaaca tctaggcccc 300
gtcgaagaat atcagctgct gtttcagggt acctatagag attccaaggaa gaaaagagat 360
ttgagaaatt ttctgaagct cttgaagcct ccattattat ggtcacatgg gctaatttaga 420
attatcagag caaaggctac cacagactgc aacagcctga atggagtctt gcagtgtacc 480
tgtgaagaca gctacacccg gtttcctccc tcatgcctt atccccagaa ctgctaccc 540
cacacggctg gaggactccc aagctgtgaa tgtcatctca acaacctcg ccagagtgtc 600
aatttctgtg agagaacaaa gatttggggc actttcaaaa ttaatgaaag gtttacaaat 660
gacccttggc attcatcttc tgctatatac tccaaatatg caaatggaaat tgaaaattcaa 720
cttaaaaaaag catatggaaag atttcaagggt tttgagtcgg ttccaggctc ccaatttcgc 780
aatgtgtcc ttccacttgc agagacccaa ttctggagcc atcctgtct ataatttctt 840
ttatttgagaa atggaagcat cgttgctggg tatgaagttt ttggctccag cagtgcac 900
gaactgctgt cagccatttgc acatgttgc gagaaggcta agacagccct tcacaagctg 960
tttccatttag aagacggctc tttcagatgt ttccggaaaag cccagtgtaa tgacattgtc 1020
tttggatttg ggtccaaggaa tgatgaatat accctgcctt gcagcagtgg ctacagggg 1080
aacatcacaag ccaagtgtgaa gtcctctggg tggcagggtca tcagggagac ttgtgtgctc 1140
tctctgttg aagaactgaa caaggaggattt ttatctttat gctttggaaat actcttggac 1200
agtaactgca gacaacttctt gttcaacaag ttgtgtccct taagtcttga gaagcaaaca 1260
gaaaagcaaa actcatcaga ttatctgcc aaacccaaat ttcacaaagcc ttcaacccca 1320
ctgcaaaaaca aaggccattt tgcattttct catactggag attccctccga caacatcatg 1380
cttaactcagt ttgtctcaaa tgaataaggc aaggaatcat aaaatcaaga aaaaatttcc 1440
agaacaactt gacattttaga gacaaatgtc aatgaagaaa ttatgtctcg tattcgatcg 1500
ggtttctgaa tttaggggtc tgggaaataaa acaagaatgtt ctcagtggtc tcattactgc 1560
tcccccttgc ttcaattaa atgaaaagaa gatttatttc catgtgattt gattcaaaaga 1620
aagtgtccca taaaatgcaga agatgtgtt ttgttgaaaat tgcgtcgt tgaccctgaa 1680
ccataaaaaa tggtttctat ttccataaaaa cagcattattt cacatggcat ttccaaataat 1740
ctggattgaa ggaagaaaaat taaggccat tccagcacac tgcggccgtaa tactgagtcn 1800
cagggnnctt ccgggtccagc ctttgggggg aaagaggggt tccccctt 1848

```

<210> 154
<211> 1616
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7501113CB1

<220>
<221> unsure
<222> 1568, 1574-1575
<223> a, t, c, g, or other

<400> 154

```

tgccagtggc ctgctgtggc tcagatactg atactttctt tccaaacagc ataagaagtgg 60
attgagccac aagtatactg aaggaaaggc tccctcgagg gtggtgtgaa agagataaat 120
caccagtccac agactatgcac cccgactgctg gctgttcagg ccaggaaaaat tgaaaagtgg 180
agtgtgtggc tcatttctt cttcacatcc cactgacggcc cacgggtggc tcctggggaa 240
aaatgatggc atcaaaacaaa aaaagaactc attgtgaatg aaaaaaaac atcttagggcc 300
agtcaagaa tatcagctgct gtttcagggt gacatatagaa gattccaagg agaaaagaga 360
tttggaaaat ttctgaagc ttttgcggcc tccattattat tggtcacatg ggctaaatttag 420
aattatcaga gcaaaaggctt ccacagactg caacagccctg aatggagtcc tgcagtgtac 480
ctgtgaagac agtacaccc gtttccccc cttcatgcctt gatccccaga actgtctac 540
tcacacggctt ggagcactcc caagctgtgaa atgtcatctc aacaacctca gccagagtgt 600
caatttctgtt gagagaacaaa agatttgggg cactttcaaa attaatgaaa gtttacaaat 660
tgaccccttgc attcatcttc tgctatatac tccaaatatg gcaaaatggaa ttgaaaattca 720
acttacaaaaa gcatatgaaa gatattcaagg ttttgcggcc gttcagggtc ccaatttcgc 780
aaatggaagc atcgttgctg ggtatgaaatg ttttgcggcc agcagtgcac ctgaactgct 840
gtcagccatttgc gacatgttgc ccggaaaggc taagacagcc cttcacatgg ttttccattt 900
agaagacggc ttttgcggcc agggattttt tatcttgc ttttgcggcc 960

```

| | | | | | | |
|-------------|-------------|-------------|--------------|-------------|-------------|------|
| tctggacag | taagctgcga | caacttctgt | tcaacaagtt | gtctgccta | aggcttgaa | 1020 |
| agcaaacaga | aaagcaaaaac | tcatcagatt | tatctgcccga | acccaaatttc | tcaaaaggctt | 1080 |
| tcaaccact | gcaaaaacaaa | ggccattatg | cattttctca | tactggagat | tcctccgaca | 1140 |
| acatcatgtct | aactcgatTTT | gtctcaaatg | aataaggcaa | ggaatcataa | aatcaagaaa | 1200 |
| aaatttccag | aacaacttga | catttagaga | caaatgtcaa | tgaagaaaatt | atgcgtcagta | 1260 |
| ttcgatcggg | ttttctgtatt | taggggtctg | ggaataaaaac | aagaatgtct | cagtggcttc | 1320 |
| attatgttc | ctttttgtct | tcaattaaat | aaaaagaaga | tttatttcca | tgtgatttga | 1380 |
| ttcaaagaaa | gtgtccata | aatgcagaag | agtaggttt | gttggaaaatc | gtgtcagtgg | 1440 |
| taccctgacc | ataaaaatatg | gtttctatTTT | tcataaaaaaca | gcattattca | catggcattt | 1500 |
| ccaataatct | ggattgaagg | aagaaaaatta | agggcgattc | cagcacactg | cgccgtaata | 1560 |
| ctgagtcnca | gggnnttcc | ggtccagcct | ttggggggaa | agaggggttc | ccccct | 1616 |

<210> 155
<211> 1568
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7501118CB1

<220>
<221> unsure
<222> 1520, 1526-1527
<223> a, t, c, g, or other

<210> 156
<211> 1799
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7501128CB1

<400> 156
gtggctcaga tactgatact ttctttccaa acagcataag aagtgattga gccacaagta 60
tactgaagga agggctccct cgagttgtgg tgtgaqaqaga taaatcacca qtcacagact 120

| | | | | | | |
|--------------|-------------|--------------|-------------|-------------|-------------|------|
| atgcaccccgaa | ctgtctgtgt | tcaagtccagg | aaaaatgaaa | gttggagtc | tgtggctcat | 180 |
| ttcttttccc | actttactgt | acggccacgg | tggcttcctg | ggggaaaatgt | atggcatcaa | 240 |
| aacaaaaaaaaa | gaactcattg | tgaataaaaaa | aaaacatcta | ggcccattcg | aagaatatca | 300 |
| gctgctgttt | caggtagacct | atagagattt | caaggagaaa | agagatttga | gaaattttct | 360 |
| gaagcttttg | aaggctccat | tattatgttc | acatgggcta | attagaattt | tcagagcaaa | 420 |
| ggcttaccaca | gactgcaaca | gcctgaatgg | agtcttcgcag | tgtacctgtt | aagacagcta | 480 |
| cacccgtttt | cctccctcat | gccttgatcc | ccagaactgc | taccccttaca | cggctggagc | 540 |
| actcccaagg | tgtgaatgtc | atctcaacaa | cctcagccag | agtgtcaatt | tctgtgagag | 600 |
| aacaaaaggtt | tggggactt | tcaaaaataa | tgaaaggttt | aaaaatgacc | ttttgaattt | 660 |
| atcttctgtt | atatactcca | aatatgcaaa | tggaatttga | attcaacttta | aaaaagcatca | 720 |
| tgaaaagaatt | caaggttttt | agtcggttca | ggtcacccaa | tttgcacatg | ctgtcccttc | 780 |
| acttgcagag | acccaatctt | ggagccatcc | tgtgtataa | tttcttttat | tgagaaaatgg | 840 |
| aagcatcgtt | gctgggtatg | aagttgttgg | ctccagcagt | gcacatgttac | tgctgtcagc | 900 |
| cattgaacat | gttgcggaga | aggctaagac | agcccttcac | aagctgtttt | cattagaaga | 960 |
| cggcttttcc | agagtgttcg | aaaaagccca | gtgtaatgac | attgtctttt | gatttgggtc | 1020 |
| caaggatgtat | gaatatacc | tgccttcgcag | cagtggctac | agggggaaaca | tcacagccaa | 1080 |
| tggtgatgtt | tctgggtggc | aggtcatcag | ggagacttgt | gtgtcttc | tgctgttgc | 1140 |
| actgaacaagg | gatgtcatca | gtatagctgt | caataatctt | aatttcgcgtt | cagtaaccaa | 1200 |
| ctggacagtc | ttactgcggg | aagaaaaagta | tgccagctca | cggttactat | agacatttgc | 1260 |
| aaacatcagc | actctgggtc | ctccgcacagc | tcttcctctg | aatttttctc | ggaatttcat | 1320 |
| tgactggaaa | gggattccag | tgaacaaaag | ccaactcaaa | aggggttaca | gctatcagat | 1380 |
| taaaatgtgt | ccccaaaata | catcttattcc | catcagaggc | cgtgtgttta | ttgggtcaga | 1440 |
| ccaattcccg | agatcccttc | cagaaaaactat | tatcagcatg | gcctcggtt | ctctgggaa | 1500 |
| cattcttccc | gtttccaaaa | atggaaaatgtc | tcaggctcaat | ggacactgtt | tatccacggt | 1560 |
| tattcaaaac | tattccatca | aaaaggtttt | cattttttt | tccaaagatag | agtccaaaccc | 1620 |
| gagccaggct | cattgtgtgt | tttgggattt | cagtcatttgc | cagtggaaacg | atgcaggctg | 1680 |
| ccaccttagt | aatgaaaactc | aagacatcg | gacgtgcacaa | tgtacttact | tgacttcctt | 1740 |
| ctccatattt | atgtcacctt | ttgtcccttc | tacaatctt | cccggttgc | aatggatcc | 1799 |

<210> 157
<211> 3395
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7501920CB1

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ggatcagtga | gcctgtgttc | atgccagtga | gctgctgtgg | ctcagatact | gataactttct | 60 |
| ttccaaacag | cataagaagt | gattgagcca | caagtatact | gaaggaaaggg | ctccctcgag | 120 |
| ttgtggtgtg | aagagataaa | tcaccagtca | cagactatgc | acccgactgc | tgctgttcag | 180 |
| tccaggaaaa | atgaaagttt | gagtgtctgt | gctoatttct | ttcttcacct | tcactgacgg | 240 |
| ccacggggc | ttctcggggg | gcccagtca | agaatatcag | ctgctgtttc | aggtgaccta | 300 |
| tagatgtcc | aaggagaaaa | gagattttag | aaattttctg | aagcttctta | agccctccatt | 360 |
| attatggtca | catgggctaa | tttagaatat | cagagcaaag | gttaccacag | actgcaacag | 420 |
| cctgaatgga | gtcctgtcagt | gtacctgtga | agacagctac | acctggttt | ctccccatcg | 480 |
| ccttgatccc | cagaactgct | accttcacac | ggctggagca | ctcccaagct | gtgaatgtca | 540 |
| tctcaacaac | ctcagccaga | gtgtcaattt | ctgtgagaga | acaagattt | ggggcacttt | 600 |
| caaaaattaat | gaaaggttt | caaataatgc | tttgaattca | tcttctgtca | tataactccaa | 660 |
| atatgcaaat | ggaattgaaa | ttcaacttaa | aaaagcatat | gaaagaattt | aagggttta | 720 |
| gtcggttcag | gtcacccaat | ttcgaaatgg | aagcatcggt | gctgggtatg | aagttgttgg | 780 |
| ctccagcagt | gcatctgaac | tgctgtcagc | cattgaacat | gttgcggaga | aggctaagac | 840 |
| agcccttcac | aagetgtttc | cattagaaga | cggcttttc | agagtgttgc | gaaaagccca | 900 |
| gtgtatgac | attgttttg | gatttgggtc | caaggatgtat | gaataatacc | tgcctgtcag | 960 |
| cagtggctac | agggaaacaa | tcacagccaa | gtgtgagtcc | tctgggtgg | aggtcatcg | 1020 |
| ggagacttgt | gtgtctctc | tgcttgaaga | actgaacaag | aatttcagta | tgattgttagg | 1080 |
| caatgccact | gaggcagctg | tgtcatcctt | cgtgaaaat | ctttctgtca | tcattcgcc | 1140 |
| aaacccatca | accacagtgg | ggaatctggc | ttcgggtgtg | tcgattctga | gcaatatttc | 1200 |
| atctctgtca | ctggccagcc | atttcaggg | gtccaaattca | acaatggagg | atgtcatcg | 1260 |
| tatagctgac | aataatccta | attcagcctc | agctaaccaa | ctggacagt | ttactgcggg | 1320 |
| aagaaaaagta | tgccagctca | cggttactag | agacattaga | aaacatcg | actctggtgc | 1380 |
| ctccgcacgc | tcttcctctg | aatttttctc | ggaaaattcat | tgactggaaa | gggattccag | 1440 |
| tgaacaaaag | ccaaactaaa | agggttaca | gttatcgat | taaaatgtgt | ccccaaaata | 1500 |
| catcttattcc | catcagaggc | cgtgtgttta | ttgggtcaga | ccaaatttca | gagatccctt | 1560 |
| ccagaaaacta | ttatcagcat | ggccctcggt | gactctgggg | aacattctac | ccgtttccaa | 1620 |
| aaatggaaat | gctcagggtca | atggacctgt | gatatccacg | tttattcaaa | actattccat | 1680 |

| | | | | | | |
|--------------|---------------|-------------|-------------|-------------|-------------|------|
| aaatgaagtt | ttcttatttt | tttccaagat | agagtcaaac | ctgagccagc | ctcattgtgt | 1740 |
| gttttggat | ttcagtcat | tgcagtggaa | cgatgcaggc | tgccacctag | tgaatgaaac | 1800 |
| tcaagacatc | gtgacgtgcc | aatgtactca | cttgacacct | ttctccatgt | tgatgtcacc | 1860 |
| ttttgtcccc | tctacaatct | ccccgttgt | aaaatggatc | acctatgtgg | gactgggtat | 1920 |
| ctccatttga | agtcctcattt | tatgcctgtat | catcgaggct | ttgttttggaa | agcagattaa | 1980 |
| aaaaaggcca | acctctcaca | cacgtcgat | ttgcatggtg | aacatagccc | tgtccctctt | 2040 |
| gattgtctgtat | gtctggttta | ttgttggtc | cacagtggac | accacgggtg | acccttctgg | 2100 |
| agtctgcaca | gctgtgtgt | tcttacaca | cttcttcac | ctctctttgt | tcttctggat | 2160 |
| gctcatgtt | ggcatcctgc | tgcttacccg | gatactcctc | gtgttccatc | acatggccca | 2220 |
| gcattttgtat | atggctgttg | gattttgcct | gggttatggg | tgccctctca | ttatatctgt | 2280 |
| cattaccatt | gctgtcacgc | aaccttagcaa | tacctacaaa | agggaaagatg | tgtgttggat | 2340 |
| taactggtcc | aatggaaagca | aaccactctt | ggctttgtt | gtccctgcac | tggctattgt | 2400 |
| ggctgtgaac | ttcggtgtgg | tgctgtctgt | tctcacaag | ctctggaggc | cgactgttgg | 2460 |
| ggaaagactg | agtcggatg | acaaggccac | catcatccgc | gtgggaaaga | gcctcctcat | 2520 |
| tctgaccct | ctgcttagggc | tcacctgggg | cttttgaata | ggaacaatag | tggacagccca | 2580 |
| gaatctggct | tggcatgtt | tttttgcctt | actcaatgca | ttccaggat | tttttatctt | 2640 |
| atgttttgg | atactcttgg | acagtaagct | gchgacaactt | ctgttcaaca | agttgtctgc | 2700 |
| cttaagttct | tggaaagcaaa | cggaaaagca | aaactcatca | gattttatcg | ccaaacccaa | 2760 |
| attctcaag | ccttcaacc | cactgcaaaa | caaaggccat | tatgcattt | ctcatactgg | 2820 |
| agattccccc | gacaacatca | tgctaaactca | gtttgtctca | aatgaataaag | gcaaggaaatc | 2880 |
| ataaaaatcaa | gaaaaaaaaattt | ccagaacaac | ttgacattta | gagacaaaatg | tcaatgaaga | 2940 |
| aattatgttc | agtattcgat | cgggttttct | gatttagggg | tctggaaata | aaacaagaat | 3000 |
| gtctcagtgg | cttcattact | gtccctttt | gtctcaatt | aaatgaaaag | aagattttatt | 3060 |
| tccatgtgtat | ttgattcaaa | gaaagtgtctc | cataatgca | gaagagtagg | ttttgttggaa | 3120 |
| aatcggtgtca | gttgatccct | gaccataaaa | tatgtttct | attttcataa | aacagcattt | 3180 |
| ttcacatggc | atttcaata | atctggattt | aaaggaaaa | atttatgaa | atagctttag | 3240 |
| ataaaattaat | aggccacgtt | cattttctt | tcaaaaaagtt | actgggtgggg | ggatgggtggg | 3300 |
| aaaaagtttat | tagtgc当地 | ttccttagaga | aaaaaccatt | tctctttcaa | attttccagt | 3360 |
| tgaattttat | gttgc当地 | gcttcttagg | ttctca | | | 3395 |

<210> 158
<211> 3567
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7510325CB1

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> | 158 | | | | | |
| gtggctcaga | tactgatact | ttctttccaa | acagcataag | aagtgattga | gccacaagta | 60 |
| tactgaagga | aggctccct | cgagttgtgg | tgtgaagaga | taaatcacca | gtcccagtcg | 120 |
| aagaatatca | gctgctgctt | caggtgacct | atagagattc | caaggagaaa | agagattga | 180 |
| gaaattttct | gaagctcttg | aagcctccat | tattatggtc | acatgggcta | attagaatta | 240 |
| tcagagcaaa | ggctaccaca | gactgcaaca | gcctgaatgg | agtccctgcag | tgtacctgtg | 300 |
| aagacagcta | cacctgggt | cctccctcat | gcctgtatcc | ccgaaactgc | taccctcaca | 360 |
| cggctggagc | actcccaagc | tgtgaatgtc | atctcaacaa | cctcagccag | agtgtcaatt | 420 |
| tctgtgagag | aacaaagatt | tggggcactt | tcaaaattaa | tgaagggtt | acaatgacc | 480 |
| ttttgaattc | atcttctgtc | atatactcca | aatatgcaaa | tggatttcaa | attcaactta | 540 |
| aaaaaggcata | tgaaaagaatt | caaggttttgc | agtcgggtca | ggtcacccaa | tttcgaaatg | 600 |
| gaagcatacg | tgctgggtat | gaagttgttg | gctccagcag | tgcattctgaa | ctgctgtcag | 660 |
| ccattgaaca | tgttcccgag | aaggctaaaga | cagcccttca | caagctgtt | ccatttagaag | 720 |
| acggctcttt | cagagtgttgc | ggaaaaggccc | agtgtaatga | cattgtcttt | ggatttgggt | 780 |
| ccaaggatga | tgaatatacc | ctggccctgc | gcgtggcta | caggggaaac | atcacagcc | 840 |
| agtgtgagtc | ctctgggtgg | caggctcatca | ggggacttgc | tgtctctct | ctgttgaag | 900 |
| aactgaacaa | gaatttgcgt | atgattgttag | gcaatgccac | tgaggcaggt | gtgtcattct | 960 |
| tcgtgcacaa | tcttctgtc | atcattcgcc | aaaacccatc | aaccacagt | ggaaatctgg | 1020 |
| cttcgggtgt | gtcgattctg | agcaatattt | catctctgtc | actggccagc | catttcaggg | 1080 |
| tgtccaattc | aacaatggag | gatgtcatca | gtatagtctga | caatatccct | aattcagcct | 1140 |
| cagctaaacc | actggggcagt | cttactgcgg | gaagaaaagt | atgccagctc | acggttacta | 1200 |
| gagacattag | aaaacatcag | cactctggtg | cctccgacag | ctcttcctct | gaattttct | 1260 |
| cggaaatcta | ttgactggaa | agggatttca | gtgaacaaaa | gccaactcaa | aagggttac | 1320 |
| agctatcaga | ttaaaatgt | tcccccaaat | acatcttattc | ccatcagagg | ccgtgtgtt | 1380 |
| attgggtcag | accattttcc | agatgcctt | tccagaaact | attatcagaa | tggccctcgt | 1440 |
| tgactctggg | gaacattcta | cccgttccaa | aaaatggaaa | tgctcaggtc | aatggacact | 1500 |
| tgatatccac | ggttattcaa | aactattcca | taaatgaagt | tttccatttt | ttttccaaga | 1560 |
| tagagtcaaa | cctgagccag | cctcattgtg | tgttttggga | tttcagtcatt | ttgcagtgga | 1620 |

acgatgcagg ctgccaccta gtgaatgaaa ctcagacat cgtgacgtgc caatgtactc 1680
 acttgaccc tttctccata ttgtatgcac cttttcccc ctctacaatc ttccccgttg 1740
 taaaatggat cacctatgtg ggactggta tctccattgg aagtctcatt ttatgcctga 1800
 tcacatcgaggc ttgttttgg aagcagatta aaaaaagcca aacctctcac acacgtcgta 1860
 tttgcattgtt gaacatagcc ctgtccctct tgattgtca tgcgtgtt attgttggtg 1920
 ccacagtggc caccacggc aacccttctg gaggctgcac agctgtgtg ttctttacac 1980
 acttcttcta cctcttctt ttctctggc tgctcatgtc tggcatccctg ctggcttacc 2040
 ggatcatctt cgttccatc cacaatggcc acatgttatg gatggctgtt ggattttggc 2100
 tgggttatgg gtgcctctc attatatctg tcattaccat tgctgtcacg caaccttagca 2160
 atacctacaa aaggaaaagat gtgtgttggc ttaactggc caatgaaagc aaaccactcc 2220
 tggttttgt tgcctctgc tggcttattg tggctgtgaa cttcggtgtg gtgtgtctag 2280
 ttctcacaaa gctctggagg ccgactgtt gggaaagact gagtcggat gacaaggcca 2340
 ccatcatccg cgtggggaaag agcctctca ttctgacccc tctgttaggg ctccacctggg 2400
 gctttggaat aggaacaataa gtggacagcc agaatctggc ttggcatgtt atttttgctt 2460
 tactcaatgc attccaggaa tttttattct tatgttttgg aatactctt gacagtaagc 2520
 tgcgacaatc tctgttcaac aagtgtctg cttttttttt aatcttgg aacagaaaagc 2580
 aaaactcatc agatattatc gccaatccca aatttctcaaa gccttcaac ccactgcaaa 2640
 acaaaggcca ttatgcatt tctcatactg gagattctc cgacaacatc atgctaactc 2700
 agttgtctc aaatgaataa ggcaaggaat cataaaatca agaaaaattt tccagaacaa 2760
 cttgacattt agagacaaaat gtcaatgaag aaattatgtc cgttattcga tcgggttttc 2820
 tgatttaggg gtctggaaat aaaacaagaa tgtctcgtt gcttcattac tgctccctt 2880
 tgcatttcatt taaatgaaa gaagatttt tccatgtga ttgttcaaa agaaaagtgc 2940
 ccataaatgc agaagagtag gttttgtgg aatctgtgc agttgtaccc tgaccataaa 3000
 atatggttt tatttttcaaa aacacgttcc attccatgg cattttcaat aatctggatt 3060
 gaaggaagaa aattttatga aatagcttta gataaaattaa taggcacgt tcattttctt 3120
 gtcaaaaaatg tactggtggg gggatggtgg gaaaaagttt ttagtgcataa ttcccttagag 3180
 aaaaaaccat ttcttttca aattttccag ttgaattttt tgcgtctt tgccttctt 3240
 gttctatcac ttaatattga aagttatca gaaataaaaat gtaaacttct atttcagata 3300
 gctttgtaac catttatcag aaagtataat aatgtgatataat gatataataat gtggtatttt 3360
 tcagtttaca aggcaactcc atctggtctt aacccctgca aacaaaatgt tcaaggcaga 3420
 cctagtgcag agatgagggc atgggggctc agagaggtaa agtacttgc caaagattgt 3480
 gaagccaggta aaggaaattt ggggattttt aggacattt tctccagac catttctaca 3540
 gccaataaaaaa gccttggaaaa ttaccta 3567

<210> 159
 <211> 1906
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7510966CB1

<400> 159
 gtggctcaga tactgatact ttctttccaa acagcataag aagtgttgc gccacaagta 60
 tactgaagga agggtccctt cgagttctgg tggtaagaga taaatccca gggccagtcg 120
 aagaatatca gctgtgtt cagggtaccc atagatggc caaggagaaaa agagatttga 180
 gaaattttctt gaaatcttgc aagcctccat tattatggc acatggcata attagaattt 240
 tcagagcaaa ggcttaccaca gactgcaaca gcctgtatgg agtcttgcg tgacactgtg 300
 aagacagctt caccgtgtt cttccatcat gcctgtatcc ccagaactgc taccttcaca 360
 cggctggagc actcccaagc tggtaatgtc atctcaacaa cctcagccag agtgtcaatt 420
 tctgtgagag aacaaagatt tggggcactt tcaaaaattaa tggaaaggattt acaaattgacc 480
 ttttgaatttctt atcttctgtt atataacttca aatatgcataa tggaaatttgc attcaactt 540
 aaaaacatca tggaaaggat caagggtttt agtgcgttca ggtcacccaa ttgcataatg 600
 ctgttcttcc acttgcagag acccaatctt ggagccatcc tggatgttataa ttctttttat 660
 tgagaaatgg aagcatgtt gctgggtatg aagttgttgg ctccagcgt gcatctgaac 720
 tgctgtcagc catttgcattt gttccggaga aggctaaagac acccttcac aagctgttcc 780
 catttgcattt cggcttccat agatgttgc gaaaaggat ttgttgcattt atgttttgc 840
 atactcttgg acagtaatgt ggcacaactt ctgttcaaca agttgtctgc cttaagtgtt 900
 tggaaagcaaa cagaaaagca aaacttcatca gattttatctg ccaaaacccaa attctcaaaag 960
 cctttcaacc cactgcaaaa caaaggccat tatgcatttt ctcataactgg agattcctcc 1020
 gacaacatca tgcttgcattt gtttgcattt aatgttgcataa gcaaggaaatc ataaaatca 1080
 gaaaaatggtcc cccggatccat tggatgttgc gggatggat tggatgttgc tggatgttgc 1140
 agtatttcgtt cgggttttctt gatgttgggg tctgggat aacaaaggat gtcgtgttcc 1200
 ctttgcattt cttccatcatc gtttgcattt aatgttgcataa gggatggat tggatgttgc 1260
 ttgatttgcattt gaaatgttgc ctttgcattt gggatggat tggatgttgc tggatgttgc 1320
 gtttgcattt gggatggat tggatgttgc tggatgttgc tggatgttgc 1380

attccaata atctggattg aaggaagaaa attttatgaa atagcttag ataaattaat 1440
 agggcacgtt cattttcttg tcaaaaagtt actgggggg ggatgggtggg aaaaagttat 1500
 tagtgc当地 ttcctagaga aaaaaccatt tctcttcaa atttccagt tgaattttat 1560
 gttcgcttt gcttcttagg ttctatcact taatattgaa agttaatcag aaataaaatg 1620
 taaactcta tttcagatag ctggtaacc atttacgaa aagtataata atgtgatatg 1680
 atatataatg tggtatttt cagtttacaa ggcacttcca tctggtccta aaccctgcaa 1740
 aaaaaagtgt caaggcagac ctatggcaga gatggggca tgggggctca gagaggtaaa 1800
 gtgacttgcc aaagattgtg aagccagttt aaggaaatgg gggatttta ggacattttgt 1860
 ctcccagacc atttctacag ccaataaaag ctttgaaaat taccta 1906

<210> 160
<211> 2122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7386101CB1

<400> 160
 ccctcagcgc gcgaggcccg cggccccctt aagacgcccgg gggccgcct ggctctcgcc 60
 gcccggggc catggccgcg cagctgctgg aggagaagct gacgcgcgc atctgcctgg 120
 ggctctacca ggaccgcgt acgcgcgcct gggccgcacaa cttctgcggg gcctgcaccc 180
 ggactgtgt ggaccgcgtc ggaaaggcgt gcccgcgtg cggggagccc ttcccgcacg 240
 ggcgcgcgc ggcgcgcac gtggccctca ggccgcgtgt ggaggtgggt cgccgcggggc 300
 ccgcggggc tccggccccc gatccggcc cggccggccga cccctggccgc cgctgcccc 360
 gccacgggcg gccgctggag ctcttcgtcc ggaccggagg cgcgtgtgt tgccgcgtgt 420
 gcaccgtgcg cgagtgtcgc ctccacgagc gggcgctgtt ggatggcgag cgcctcaagc 480
 gcgaggccca gctgagagcc agcctggagg ttacccagca gcaggccacc caggccgaag 540
 gccactact agagctgcgc aagcaaagca gccagatcca gaactcgcc tgcatcttgg 600
 cctctgggt ctccggcaag ttcagcagcc tgctacaggc cctggaaata cagcacacga 660
 cagcaactgag gacatcgag gtggcaaga cgcaggcgct ggcacaggct cgagacgagg 720
 agcagcggct gcggtccat tggaggctg tggctcgcc tggctcgagg atccgggagc 780
 tcctggagca ggtggatgag cagacccctc tgcaggaatc gcagctcctc cagcccccc 840
 ggcctctgg gccactgacc cctctgcagt gggatgaaga ccaacagctg ggtgacctga 900
 agcaattgt aagccggctg tggccctcc tcttggaaaga gggagccac cctggggcac 960
 cagccaagcc tggacttgc gccccctgg attatcgaa tctgacccctt gatccagtca 1020
 ggcggccatcg tcacttctat ctgtcgccagg aggaccagca ggtgaagcac tgcgtcagt 1080
 cccggggccc aggccggccc ggcacgttgc agctctggca ggtcaatgt gcccagagct 1140
 tccaggccgg gcaccaactt tggagggtgc ggcgtcaga ccactcggtg acactggcg 1200
 tctcttaccc gcaactgcga cgggtcgagg tggggcccca cacagacaac atggccggg 1260
 gaccctgctc ctgggggctc tgcgtccagg aggacagctt ccaggcttgc cacaacgggg 1320
 aagcccaagcg cttcccaagggt gttcaggcgc ggctctggg catggatttgc gacctggct 1380
 caggctgcct caccttctac agcctggagc cccagaccca gcccctgtac accttccatg 1440
 cccttctcaa ccagccccctc accccctgc tctggctctt cgagggtagg accctgaccc 1500
 tgtccatcg gcaactgcga gttttccctc tggggcccca ggaagagggtg ctacgtgaa 1560
 gaaggcatgg gatggagccccc tggcatagct ggcacccatgc ctatgtcccc aagagctgcc 1620
 cagcttcagc ttggggactg gaggaccaggc tggcccttc tctgttaact cagaaagaga 1680
 tggagggtt gggggaggta gcataaacgc agatgtactt gttcgaccc ttttgaagg 1740
 gacacagtct aggagggggtaaaatggat gcccggcc cagagagaac ccagttctag 1800
 gtactgtctg ggcctggggc gcgagaggcag tggccagggg acttctggc ttacaggaca 1860
 gcgtgtgtga caaaaattcag atctacacta acttgcctt ggagatgata agggccaaag 1920
 gagcagtctg ggagggggccgg tgagccagag tagtcccagg gggagacaga ttccctcc 1980
 ctccccccct gcaactctctt ttaattttt gtaacatttg gagagacgatc cgtccctgtct 2040
 tttttttttt ttatgttgcatccatata attgttattct acaaacaatt ttgtttctg 2100
 cattaaaca tttttgtttt tt 2122